MILLING

MILLING

INDUSTRY 4.0

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Tool Selection Guide

Face mills

	TANGSPEED	MILLRUSH	MILL2RUSH	MILL2RUSH	CHASEMILL
Series	**4T-TF90** 	**3P TF90** 	**6N TF90** 	**SCRM90TN** 	**TFM90AX 2S-TFM90AP TFM90AP** 
Pages	E40	E41-E43	E44-E46	E47-E48	E49-E52
Approach angle	90°	90°	90°	90°	90°
Max. depth of cut(mm)	8.3-12.5	4.7-15	4.1-9.2	13-15	5.5-17.9
Diameter range(mm)	Ø40-Ø200	Ø32-Ø250	Ø40-Ø250	Ø50-Ø250	Ø32-Ø200
Insert	LPK(H)U 0904 LPKU 1407	3PK(H)T 0603 3PK(H)T 1004 3PK(H)T 1505 3PK(H)T 1906	6NKU 0403 6NGU 0604 6NGU 0905	TNMX 1806 TNM(G)X 2207	AXM(C)T 0602 APK(C)T 09T3 APK(C)T 1204 APK(C)T 1705/06 APKT1907
Application – Facing	●	●	●	●	●
Shouldering	●	●	●	●	●
Slotting	●	●	●	●	●
Straight ramping	●	●			●
Helical ramping	●	●			●
Slanted shoulder & chamfer					
Side slottiang					
Profiling					
Step down					
Counter boring					
High feed milling					

Tool Selection Guide

Face mills

CHASEPMILL	CHASE2MILL	CHASE4MILL	CHASE8MILL	CHASEALU	CHASE4FINISH
2P-TF90	TFM90AN	4N TF90	8D-TF90	TFM90XEV	For Finishing 4W-TF90
					
E53	E54-E55	E56-E57	E58-E59	E60	E61
90º	90º	90º	90º	90º	-
4.7-6.0	11-15	3.5-13.8	5.0-8.5	16-21	0.5
Ø32-Ø80	Ø40-Ø200	Ø32-Ø80	Ø32-Ø160	Ø40-Ø200	Ø50-Ø160
2PKT 0503 2PKT 0704	ANM(H)X 1106 ANM(H)X 1607	4NKT 0402 4NK(H)T 0603 4NK(H)T 0904 4NKT 1106 4NKT 1407	SQKU 0703 SQK(H)U 1206	XEVT 1605 XEVT 2206	4WHU 1207
●	●	●	●	●	●
●	●	●	●	●	
●	●	●	●	●	
●	●	●		●	
●	●	●		●	
		●		●	

● Recommended

Tool Selection Guide

Face mills

		CHASE2QUAD	CHASE2QUAD	LIONMILL	LIONMILL	CHASE2QUAD
Series		For Finishing TFM90SNS 	For Finishing TFM90SNS-QC TQ90SNS 	LM90TP 	LM90SE 	TFM90SN TFM88SN 
Pages		E62	E63	E64	E65	E66-E67
Approach angle		90°	90°	90°	90°	90°, 88°
Max. depth of cut(mm)		1.0	1.0	17.6	17.0	12.0
Diameter range(mm)		Ø50-Ø250	Ø250-Ø400	Ø80-Ø315	Ø125-Ø315	Ø50-Ø200
Insert		SNEX 1204 SNET 1205	SNEX 1204 SNET 1205	TPKN 2204	SEKX 2107	SNGX 1306 SNGX 1306 ZN
Application	Facing	●	●	●	●	●
	Shouldering			●	●	●
	Slotting			●		
	Straight ramping					
	Helical ramping					
	Slanted shoulder & chamfer					
	Side slottiang					
	Profiling					
	Step down					
	Counter boring					
	High feed milling					

Tool Selection Guide

Face mills

CHASE2QUAD	LIONMILL	CHASEMILL	CHASE10MILL	LIONMILL	HEXA2MILL
TFM75SN 	LM75SP 	TFM75AP 	TFM65PT 	LM60SC 	TFM55AHNS 
E68	E69	E70	E71	E72-E73	E74
75º	75º	75º	65º	60º	55º
9.5	9.5-12.5	3.9	3.3-6.5	13.0-18.0	5.0
Ø50-Ø250	Ø80-Ø315	Ø80-Ø125	Ø40-Ø125	Ø125-Ø500	Ø50-Ø160
SNM(G)X 1306 EN SNMX 1306 XTN	SPKN 1203 SPKN 1504	APKT 1705 PER	PTKU 0503 PTKU 1006	SCKN 2107 SCKN 2708	HNC(M)X 05
●	●	●	●	●	●
●	●		●	●	●

● Recommended

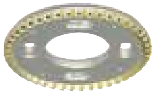
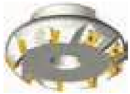
Tool Selection Guide

Face mills

		CHASE12MILL	CHASE2HEPTA	CHASE2HEPTA	CHASE2HEPTA	CHASEHEPTA
Series		12D-TF45 	14D-F45XN 	14D-F45XNH 	14D-F45XNW 14D-F45XNW-QC 	7S-F45 
Pages		E75-E76	E77-E78	E79	E80	E81
Approach angle		45°	45°	45°	45°	45°
Max. depth of cut(mm)		3.0-5.0	3.5-5.0	3.5-5.0	5.0	3.2
Diameter range(mm)		Ø40-Ø250	Ø50-Ø250	Ø63-Ø125	Ø80-Ø400	Ø32-Ø125
Insert		HXK(H)U 0605 HXK(H)U 1007	XNM(H)U 0605 XNM(H)U 0906	XNM(H)U 0605 XNM(H)U 0906	XNHU 0906	7EMT 0604
Application	Facing	●	●	●	●	●
	Shouldering					
	Slotting					●
	Straight ramping					●
	Helical ramping					●
	Slanted shoulder & chamfer	●	●	●	●	●
	Side slottiang					
	Profiling					
	Step down					
	Counter boring					
	High feed milling					

Tool Selection Guide

Face mills

CHASE2QUAD	CHASE2QUAD	CHASE2QUAD	CHASE2QUAD	CHASE2QUAD	CHASE2MILL
TFM45SN 	**TFM45SN-QC** 	**TFM45SNS** 	**TFM45SNS-CA** 	**TFM45SNW** **TQ45SNW**  	**TFM45AN** 
E82	E83	E84	E85	E86	E87
45°	45°	45°	45°	45°	45°
7.0	7.0	8.8	8.8	8.8	8.4
Ø40-Ø250	Ø250-Ø400	Ø63-Ø250	Ø125-Ø315	Ø80-Ø355	Ø50-Ø160
SNM(G)X 1306 AN SNMX 1306 XTN	SNM(G)X 1306 AN SNMX 1306 XTN	SNMX 1607 SNHX 1606	SNMX 1607 SNHX 1606	SNHX 1606	ANHX 1607 ANR-M
●	●	●	●	●	●
●	●	●	●	●	

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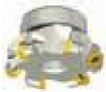
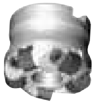
Tool Selection Guide

Face mills

		HEXA2MILL	HEXA2MILL	CHASEOCTO	CHASEOCTO	LIONMILL
Series		TFM45HNS 	TFM45HN 	TFM43OFS 	TFM43ZOFW 	LM45SD 
Pages		E88	E89	E90	E91	E92
Approach angle		45°	45°	43°	43°	45°
Max. depth of cut(mm)		6.1	6.1	3.5	5.0	6.5-8.7
Diameter range(mm)		Ø63-Ø250	Ø80-Ø315	Ø32-Ø125	Ø63-Ø200	Ø80-Ø315
Insert		HNHX 1006	HNHX 1006	OFCW 05T3 OFCT 05T3 OFMT 05T3 RFMT 1404	OFCN 0704 OFCR 0704 OFMR 0704 RFMR 1904	SDKN 1203 SDKN 1504
Application	Facing	●	●	●	●	●
	Shouldering					
	Slotting					
	Straight ramping					
	Helical ramping					
	Slanted shoulder & chamfer	●	●			●
	Side slottiang					
	Profiling					
	Step down					
	Counter boring					
	High feed milling					

Tool Selection Guide

Face mills

LIONMILL	HEXA2MILL	CHASE2MOLD	CHASEMOLD	CHASEMOLD	CHASESPEED
LM45SE 	TFM15HNS 	TFMRNS 	TFMRX 	TFMRY 	TFMRN 
E93	E94	E95-E96	E97-E98	E99-E101	E102
45°	15°	-	-	-	-
6.5-8.7	2.0	5.0-8.0	5.0-10.0	4.0-10.0	6.3
Ø80-Ø250	Ø80-Ø125	Ø32-Ø200	Ø50-Ø160	Ø32-Ø250	Ø50-Ø80
SEKN 1203 SEKN 1504	HNHX 1006 ANTN-M	RNMU 1004 RNMU 1205 RNMU 1606	RXM(H)X 1003 RXM(H)X 12T3 RXMX 1604 RXMX 2006	RYM(H)X 0803 RYM(H)X 1004 RYM(H)X 1205 RYM(H)X 1606 RYMX 2007	RNGN 1207 FL
●	●	●	●	●	●
		●	●	●	●
		●	●	●	●
		●	●	●	●
		●	●	●	●
●					
		●	●	●	●

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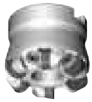
Tool Selection Guide

Face mills

	CHASESPEED	CERAMICSPEED	CERAMICSPEED	CHASE10MILL	CHASE4FEED
Series	TFMRP 	TFMBN-09CH 	TFMBN-12 	TFMPT 	TFMBL 
Pages	E103	E104	E105	E106	E107-E108
Approach angle	-	-	-	-	-
Max. depth of cut(mm)	6.3	1.5	2.5	1.5-3.0	1.0-2.0
Diameter range(mm)	Ø50	Ø40-Ø50	Ø50-Ø80	Ø40-Ø200	Ø32-Ø200
Insert	RPGN 1204 FL	BNGX 0904	BNGX 1207	PTKU 0503 PTKU 1006	BLMP 0603 BLMP 0904 BLMP 1105
Application – Facing	●	●	●	●	●
Application – Shouldering	●	●	●		●
Application – Slotting	●	●	●		●
Application – Straight ramping	●	●	●		●
Application – Helical ramping	●	●	●		●
Application – Slanted shoulder & chamfer					
Application – Side slottiang					
Application – Profiling	●	●	●	●	●
Application – Step down					
Application – Counter boring					
Application – High feed milling		●	●	●	●

Tool Selection Guide

Face mills

CHASE2FEED	CHASEFEED				
TFMBL-13 	**TFMSB** 				
E109-E110	E111-E112				
-	-				
2.0	1.2-2.0				
Ø40-Ø250	Ø32-Ø250				
BLMP 1306	SBMT 0904 SBMT 1306				
●	●				
●	●				
●	●				
●	●				
●	●				
●					
●	●				

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Tool Selection Guide

End mills & modular heads

		MILL SPEED	TANG SPEED	MILL RUSH	MILL 2 RUSH	MILL 2 RUSH
Series		2S-TE90CV 	4T-TE90 	3P-TE90 	6N TE90 	SCRM90TN 
Pages		E113-E114	E115-E116	E117-E122	E123-E124	E125
Approach angle		90°	90°	90°	90°	90°
Max. depth of cut(mm)		5.0	4.6-8.3	3.5-15.0	4.1-9.2	13.0
Diameter range(mm)		Ø6-Ø14	Ø10-Ø40	Ø8-Ø50	Ø20-Ø40	Ø35-Ø40
Insert		CVK(H)T 0502	LPK(H)U 0502 LPK(H)U 0904	3PKT 0402 3PK(H)T 0603 3PK(H)T 1004 3PK(H)T 1505 3PK(H)T 1906	6NKU 0403 6NGU 0604 6NGU 0905	TNMX 1806
Application	Facing	●	●	●	●	●
	Shouldering	●	●	●	●	●
	Slotting	●	●	●	●	●
	Straight ramping	●	●	●		
	Helical ramping	●	●	●		
	Slanted shoulder & chamfer					
	Profiling					
	Plunging					
	Step down					
	Counter boring					
	High feed milling (HF)					

Tool Selection Guide

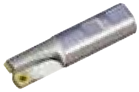
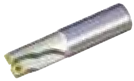
End mills & modular heads

CHASEMILL	CHASEMILL	CHASEPMILL	CHASE2MILL	CHASE4MILL	CHASE8MILL
MTE90AX-06-L	TE90AX 2S-TE90AP TE90AP	2P-TE90	TE90AN	4N TE90	8D-TE90
					
E126	E127-E135	E136-E138	E139-E140	E141-E146	E147
90°	90°	90°	90°	90°	90°
5.5	5.5-17.9	4.7-6.0	11.0-15.0	3.5-13.8	5.0
Ø8-Ø30	Ø8-Ø42	Ø12-Ø40	Ø25-Ø50	Ø8-Ø40	Ø16-Ø40
AXCT 06-L	AXM(C)T 0602 APK(C)T 09T3 APK(C)T 1204 APK(C)T 1705/06 APKT 1907	2PKT 0503 2PKT 0704	ANM(H)X 1106 ANM(H)X 1607	4NKT 0402 4NK(H)T 0603 4NK(H)T 0904 4NKT 1106 4NKT 1407	SQKU 0703
●	●	●	●	●	●
●	●	●	●	●	●
●	●	●	●	●	●
	●	●	●	●	
	●	●	●	●	
				●	

● Recommended

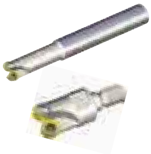
Tool Selection Guide

End mills & modular heads

		CHASEALU	CHASEALU	CHASEQUAD	CHASEQUAD	CHASEQUAD
Series		**TE90XEV-HSK63A** 	**TE90XEV** 	**TSF** 	**TDM** 	**TCF** 
Pages		E148	E149	E150	E151	E152
Approach angle		90°	90°	90°	90°	45°-75°
Max. depth of cut(mm)		16	16-21	5.6-13.4	12-40	-
Diameter range(mm)		Ø25-Ø50	Ø25-Ø40	Ø12-Ø50	Ø12-Ø50	Ø7-Ø25
Insert		XEVT 1605	XEVT 1605 XEVT 2206	XOMT 0602 SPMG(T) 0904 SPMG(T) 1104 SPMG(T) 1405	XOMT 0602 SPMG(T) 0904 SPMG(T) 1104 SPMG(T) 1405	SPMG(T) 1104
Application	Facing	●	●	●	●	●
	Shouldering	●	●	●	●	
	Slotting	●	●	●	●	
	Straight ramping	●	●		●	
	Helical ramping	●	●		●	
	Slanted shoulder & chamfer					●
	Profiling					
	Plunging				●	
	Step down	●	●		●	
	Counter boring				●	
	Drill mill				●	
	High feed milling					

Tool Selection Guide

End mills & modular heads

CHASEHEPTA	CHASE2MOLD	CHASEMOLD	CHASEMOLD	FINEBALL	FINEBALL
7S-E45	TERNS	TERD/TERX	TERY	TNF	TNFR
					
E153	E154-E155	E156-E157	E158-E160	E161-E163	E164-E166
45°	-	-	-	-	-
3.2	5.0-8.0	2.5-10.0	4.0-10.0	-	-
Ø32-Ø50	Ø25-Ø50	Ø8-Ø50	Ø16-Ø50	Ø6-Ø32	Ø6-Ø32
7EMT 0604	RNMU 1004 RNMU 1205 RNMU 1606	RDMX 05/07 RXM(H)X 1003 RXM(H)X 12T3 RXMX 1604 RXMX 2006	RYM(H)X 0803 RYM(H)X 1004 RYM(H)X 1205 RYM(H)X 1606 RYM(H)X 2007	NFB NFR	NFR
●	●	●	●	●	●
●	●	●	●	●	●
●	●	●	●	●	●
●	●	●	●	●	●
●	●	●	●	●	●
	●	●	●	●	●
				●	●
				●	●
				●	●
				●	●

● Recommended

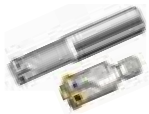
Tool Selection Guide

End mills & modular heads

		CHASESPEED	DUETBALL	TRIOBALL	CHASE2BALL	CHASE2BALL
Series		TERP 	2F 	3F 	TDB50X 	TDB50X-WT 
Pages		E167-E168	E169-E170	E171	E172	E173
Approach angle		-	-	-	-	-
Max. depth of cut(mm)		4.7-6.3	11.8-44.7	39-94	59-69	59-69
Diameter range(mm)		Ø20-Ø40	Ø16-Ø32	Ø32-Ø50	Ø50	Ø50
Insert		RPGN 0903 FL RPGN 1204 FL	2FB APKT 09T3 APKT 1204	3FB CNHX 1311 CNHX 1606	6RBE 50-M 6RBE 50-MR	6RBE 50-M 6RBE 50-MR
Application	Facing	●	●	●	●	●
	Shouldering	●				
	Slotting	●	●	●	●	●
	Straight ramping	●	●	●	●	●
	Helical ramping	●	●	●	●	●
	Slanted shoulder & chamfer					
	Profiling	●	●	●	●	●
	Plunging					
	Step down					
	Counter boring					
	Drill mill					
	High feed milling (HF)					

Tool Selection Guide

High feed end mills & modular heads

NANRUSH	CERAMICSFEED	CHASE10MILL	CHASE4FEED	CHASE2FEED	CHASEFEED
THFN 	**TEBN-09CH** 	**TEPT** 	**TEBL** 	**TEBL-13** 	**TESB** 
E174	E175	E176	E177-E184	E185	E186-E187
-	-	-	-	-	-
0.3-0.5	1.5	1.5-3.0	0.5-2.0	2.0	1.2-2.0
Ø6-Ø8	Ø25-Ø40	Ø20-Ø40	Ø8-Ø42	Ø32-Ø42	Ø25-Ø42
HFN 060 HFN 080	BNGX 0904	PTKU 0503 PTKU 1006	BLMP 0402 BLMP 0603 BLMP 0904 BLMP 1105	BLMP 1306	SBMT 0904 SBMT 1306
●	●		●	●	●
●	●	●	●	●	●
●	●		●	●	●
●	●		●	●	●
●	●		●	●	●
●	●	●	●	●	
●	●	●	●	●	●

● Recommended

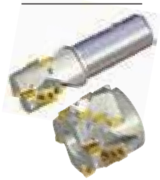
Tool Selection Guide

Extended flute cutters

		TANGSPEED	TANGSPEED	CHASEVQUAD	MILLRUSH	MILL2RUSH
Series		4T-TEF 	4T-TES 	4S-TEF 4S-TES 	3P TEF 3P TES 	TEF-TN TES-TN 
Pages		E188	E189	E190-E191	E192-E193	E194
Approach angle		90°	90°	90°	90°	90°
Max. depth of cut(mm)		15-51	34-56	27-77.9	20-83	48-71
Diameter range(mm)		Ø16-Ø40	Ø50-Ø100	Ø32-Ø80	Ø20-Ø100	Ø50-Ø100
Insert		LPK(H)U 0502 LPK(H)U 0904	LPKU 1407	SVK(H)T 1145	3PK(H)T 0603 3PK(H)T 1004 3PK(H)T 1505 3PK(H)T 1906	TNMX 1806
Application	Facing					
	Shouldering	●	●	●	●	●
	Slotting	●	●	●	●	●
	Straight ramping					
	Helical ramping					
	Slanted shoulder & chamfer					
	Profiling					
	Plunging					
	Step down					
	Counter boring					
	Drill mill					
	High feed milling					

Tool Selection Guide

Extended flute cutters

CHASE2MILL	CHASEMILL	CHASEMILL	CHASEQUAD		
TEF-AN TES-AN 	TEF-AX 2S-TEF-AP TEF-AP 	TES-AP 	TEF TES 		
E195-E196	E197	E198	E199		
90°	90°	90°	90°		
40-69	16-44	45-88	23.8-60		
Ø32-Ø100	Ø16-Ø40	Ø50-Ø100	Ø32-Ø100		
ANM(H)X 1106 ANM(H)X 1607	AXM(C)T 0602 APK(C)T 09T3 APK(C)T 1204 APK(C)T 1705/06	APK(C)T 1204 APK(C)T 1705/06	SPMG(T) 0904 SPMG(T) 1104 SPMG(T) 1405		
●	●	●	●		
●	●	●	●		

● Recommended

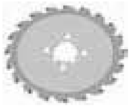
Tool Selection Guide

Slotting cutters

Series	TOPSLOT TSM-TS16 	TOPSLOT TSM-SL 	TOPSLOT TSM-FD-Z 	TOPSLOT TSM-FD-ZN 	TOPSLOT TSM-FD -S/W-ZN 
Pages	E200-E201	E202-E203	E204-E205	E206	E207-E209
Approach angle	-	-	-	-	-
Max. width of cut(mm)	1.2-6.0	3-6.0	3-10	10-20	10-26
Diameter range(mm)	Ø32.2-Ø80	Ø25-Ø63	Ø63-Ø250	Ø80-Ø125	Ø100-Ø315
Insert	TS16	SLOT	ZNHT	ZNHU 080 ZNHU 110	ZNHU 080 ZNHU 110 ZNHU 140
Application – Facing					
Application – Shouldering					
Application – Slotting	●	●	●	●	●
Application – T slotting	●	●			
Application – Side slotting	●	●	●	●	●
Application – External threading					
Application – Internal threading					

Tool Selection Guide

Slotting cutters

TOPSLOT	TOPSLOT	TOPSLOT	TSC Slotting Cutter	MAXISLOT	MAXISLOT
TSM-FF-Z	**TSM-FF-ZN**	**TSM-FF- S/W-ZN**	**TSC**	**TR-S**	**TR-F**
					
E210	E211	E212-E214	E215	E216	E217
-	-	-	-	-	-
3-10	10-20	10-26	1.6-4.52	3-10	8-10
Ø80-Ø160	Ø63-Ø125	Ø100-Ø315	Ø75-Ø160	Ø24.7-Ø39.7	Ø24.25-Ø39.25
ZNHT	ZNHU 080 ZNHU 110	ZNHU 080 ZNHU 110 ZNHU 140	TIMC TIMJ TIPV	-	
					●
					●
●	●	●	●		
●	●	●		●	
●	●	●	●	●	

● Recommended

Tool Selection Guide

Slotting cutters

			MAXISLOT				
Series			**TR-T-W55** **TR-T-M60** 				
Pages			E218				
Approach angle			-				
Max. width of cut(mm)			7.7-9.5				
Diameter range(mm)			Ø24.7-Ø39.7				
Insert			-				
Application	Facing						
	Shouldering						
	Slotting						
	T slotting						
	Side slotting						
	External threading		●				
	Internal threading		●				

Tool Selection Guide

Milling inserts

Series	MILLSFEED	TANGSFEED	MILLRUSH	MILL2RUSH	MILL2RUSH
	CVK(H)T 0502	LPK(H)U 0502 LPK(H)U 0904 LPKU 1407	3PKT 0402 3PK(H)T 0603 3PK(H)T 1004 3PK(H)T 1505 3PK(H)T 1906	6NKU 0403 6NGU 0604 6NGU 0905	TNMX 1806 TNM(G)X 2207
					
Material	P M K S H	P M K S H	P M K N S H	P M K N S H	P M K S H
Pages	E246	E251	E227-E228	E232-E233	E277
Approach angle	90°	90°	90°	90°	90°
Max. depth of cut(mm)	0.5-5	4.6-12.5	3.5-15	4.1-9.2	13-15
Application – Facing	●	●	●	●	●
Application – Shouldering	●	●	●	●	●
Application – Slotting	●	●	●	●	●
Application – Straight ramping	●	●	●		
Application – Helical ramping	●	●	●		
Application – Slanted shoulder & chamfer					
Application – Profiling					
Application – Plunging			○		
Application – Step down			○		
Application – Counter boring			○		
Application – High feed milling	●				

● Recommended, ○ Suitable

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Tool Selection Guide

Milling inserts

		CHASEMILL	CHASEMILL	CHASEMILL	CHASEPMILL	CHASE2MILL
Series		AXCT 0602-L	AXM(C)T 0602 APK(C)T 09T3 APK(C)T 1204 APK(C)T 1705/06 APKT 1907	APCT 12-PCD35	2PKT 0503 2PKT 0704	ANM(H)X 1106 ANM(H)X 1607
						
Material		P M S	P M K N S H	N	P M K S H	P M K N S H
Pages		E241	E236-E242	E238	E225	E235
Approach angle		90°	90°	90°	90°	90°
Max. depth of cut(mm)		5.5	0.5-17.9	3.5	0.5-6.0	11-15
Application	Facing	●	●	●	●	●
	Shouldering	●	●	●	●	●
	Slotting	●	●	●	●	●
	Straight ramping		●		●	○
	Helical ramping		●		●	○
	Slanted shoulder & chamfer					
	Profiling					
	Plunging					
	Step down					
	Counter boring					
	High feed milling		●		●	

Tool Selection Guide

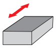
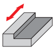
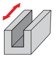
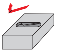
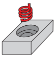
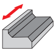
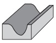
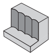
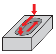
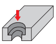
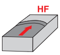
Milling inserts

CHASE4MILL	CHASE8MILL	CHASEALU	CHASE4FINISH	CHASE2QUAD	LIONMILL
4NKT 0402 4NK(H)T 0603 4NK(H)T 0904 4NKT 1106 4NKT 1407	SQKU 0703 SQK(H)U 1206	XEVT 1605 XEVT 2206	4WHU 1207	SNEX 1204 SNET 1205	TPKN 2204
					
P M K N S H	P M K	N	P M K N S H	P K	P M K
E229-E230	E273	E280	E231	E267	E278
90º	90º	90º	90º	90º	90º
0.5-13.8	5.0-8.5	14-21	0.5	1.0	17.6
●	●	●	●	●	●
●	●	●		○	●
●	●	●			●
●		●			
●		●			
		●			○
		○			
●					

● Recommended, ○ Suitable

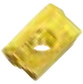
Tool Selection Guide

Milling inserts

Series		LIONMILL	CHASEVQUAD	CHASE2QUAD	CHASE2QUAD	LIONMILL
		SEKX 2107	SVK(H)T 1145	SNGX 1306... SNGX 1306 ZN	SNM(G)X 1306 EN... SNMX 1306 XTN	SPKN 1203 SPKN 1504
						
Material		P K	P M K S H	P M K	P M K	P M K
Pages		E265	E274	E269	E268	E272
Approach angle		90º	90º	90º, 88º	75º	75º
Max. depth of cut(mm)		17	9-10	12	9.5	9.5-12.5
Application Facing		●		●	●	●
Shouldering		●	●	●		
Slotting		○	●	○	○	○
Straight ramping						
Helical ramping						
Slanted shoulder & chamfer					●	●
Profiling						
Plunging						
Step down						
Counter boring						
High feed milling						

Tool Selection Guide

Milling inserts

ChaseMill	Chase10Mill	LionMill	Hexa2Mill	Chase12Mill	Chase2Hepta
APKT 1705	PTKU 0503 PTKU 1006	SCKN 2107 SCKN 2708	HNC(M)X 0504 HNCX 0506 HNCX 05R/L-W	HXK(H)U 0605 HXK(H)U 1007	XNM(H)U 0605 XNM(H)U 0906
					
P M K N S H	P M K	P K	P K	P K	P M K
E239	E257	E264	E248	E250	E281-E282
75°	65°	60°	55°	45°	45°
3.9	3.3-6.5	13-18	5.0	3.0-5.0	1.0-5.0
●	●	●	●	●	●
○		○	○		○
	●	●	●	●	●

● Recommended, ○ Suitable

Tool Selection Guide

Milling inserts

Series	CHASEHEPTA	CHASE2QUAD	CHASE2QUAD	CHASE2MILL	HEXA2MILL
	7EMT 0604	SNM(G)X 1306 AN... SNMX 1306 XTN	SNMX 1607 SNHX 1606	ANHX 1607	HNHX 1006
					
Material	P M K	P M K N	P M K	P M K N S	P M K
Pages	E234	E268	E270	E234	E249
Approach angle	45°	45°	45°	45°	45°
Max. depth of cut(mm)	3.2	7	8.8	8.4	6.1
Application – Facing	●	●	●	●	●
Shouldering					
Slotting	●	○	○	○	○
Straight ramping	●				
Helical ramping	●				
Slanted shoulder & chamfer	●	●	●		●
Profiling	●				
Plunging					
Step down					
Counter boring					
High feed milling (HF)					

Milling inserts

CHASEOCTO	CHASEOCTO	LIONMILL	HEXA2MILL	CHASE2MOLD	CHASEMOLD
OFCW 05T3 OFCT 05T3 OFMT 05T3 RFMT 1404	OFCN 0704 OFCR 0704 OFMR 0704 RFMR 1904	SDKN 1203 SDKN 1504 SEKN 1203 SEKN 1504	HNHX1006	RNMU 1004 RNMU 1205 RNMU 1606	RDMX 05/07 RXM(H)X 1003 RXM(H)X 12T3 RXMX 1604 RXMX 2006
					
P M K N	P M K N	P	P K	P M K S H	P M K
E256	E255	E264-E265	E249	E259	E260
43°	43°	45°	15°	-	-
3.5-7.0	5-9.5	6.5-8.7	2	5-8	2.5-10
●	●	●	●	●	●
				●	●
○	○	○		●	●
				●	●
				●	●
		●	●		
				●	●
				○	

● Recommended, ○ Suitable

Tool Selection Guide

Milling inserts

			CHASEMOLD	CHASESPEED	CERAMICSFEED	CERAMICSFEED	CHASE10MILL
Series			RYM(H)X 0803 RYM(H)X 1004 RYM(H)X 1205 RYM(H)X 1606 RYMX 2007 	RNGN 1207 FL RPGN 0903 FL RPGN 1204 FL 	BNGX 0904 	BNGX 1207 	PTKU 0503 PTKU 1006 
Material			P M K S H	P M K S	S	S	P M K
Pages			E262	E258	E245	E245	E257
Approach angle			-	-	-	-	-
Max. depth of cut(mm)			4-10	4.7-6.3	1.5	2.5	1.5-3.0
Application	Facing		●	●	●	●	●
	Shouldering		●	●	●	●	
	Slotting		●	●	●	●	
	Straight ramping		●	●	●	●	
	Helical ramping		●	●	●	●	
	Slanted shoulder & chamfer						●
	Profiling		●	●	●	●	●
	Plunging						
	Step down						
	Counter boring						
	Drill mill						
	High feed milling	HF			●	●	●

Tool Selection Guide

Milling inserts

CHASE4FEED	CHASE2FEED	CHASEFEED	CHASEQUAD	NANRUSH	FINEBALL
BLMP 0402 BLMP 0603 BLMP 0904 BLMP 1105	BLMP 1306	SBMT 0904 SBMT 1306	SPMG(T) 0904 SPMG(T) 1104 SPMG(T) 1405 XOMT 0602	HFN 060 HFN 080	NFB
					
P M K S H	P M K S H	P M K S H	P M K	P M K S H	S
E243	E244	E263	E271	E247	E252
-	-	-	15º-45º, 90º	-	-
0.5-2.0	2.0	1.2-2.0	-	0.3-0.5	-
●	●	●	●	●	●
●	●	●	●	●	●
●	●	●	●	●	●
●	●	●	●	●	●
●	●	●	●	●	●
			●		
○	○	○		●	●
			●		●
○	○	○	●		●
			●		●
			●		●
●	●	●		●	

● Recommended, ○ Suitable

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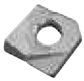
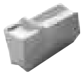
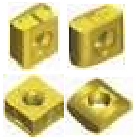
Tool Selection Guide

Milling inserts

			FINEBALL	DUETBALL	TRIOBALL	MILL2RUSH	TOPSLOT
Series			NFR 	2FB 	3FB 	6RBE 	TS16 
Material			P M K S H	P M K S H	P M K S H	P M K S H	P M K S H
Pages			E253-E254	E224	E226	E233	E279
Approach angle			-	-	-	-	-
Max. depth of cut(mm)			-	11.8-44.7	39-94	59-69	4.8
Application	Facing		●	●	●	●	○
	Shouldering		●				○
	Slotting		●	●	●	●	●
	Straight ramping		●	●	●	●	●
	Helical ramping		●	●	●	●	
	Side slotting						●
	Profiling		●	●	●	●	
	Plunging		●	○	○	○	
	Step down		●	○	○	○	
	Counter boring		●	○	○	○	
	Drill mill		●				
	High feed milling	HF					

Tool Selection Guide

Milling inserts

TOPSLOT	TOPSLOT	TOPSLOT	TSC slotting cutter	Tailor-made Insert	
SLOT	ZNHT	ZNHU	TIMC TIMJ TIPV	LNC PMIN SNA SNB	
					
P M K	P M K N	P M K	P M K N	P M K N S H	
E266	E283	E284	E275-E276	E285-E286	
-	-	-	-	-	
*	*	*			
○	○	○		●	
○	○	○		●	
●	●	●	●	●	
●	●	●	●	●	

• '*' Marked: For CDX, refer to the cutter page

● Recommended, ○ Suitable

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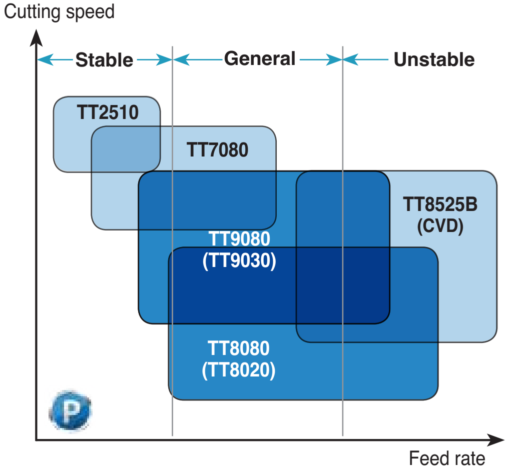
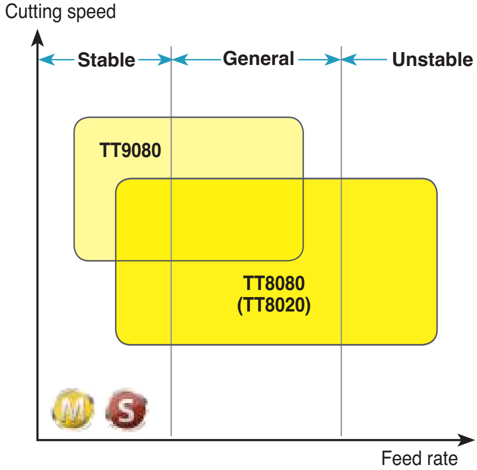
Grades

Selection guide for milling grades

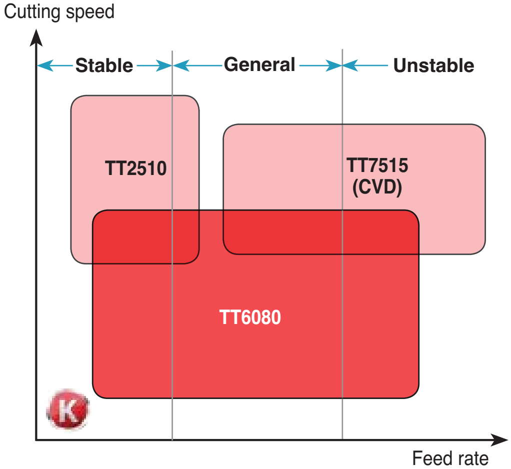
For steel



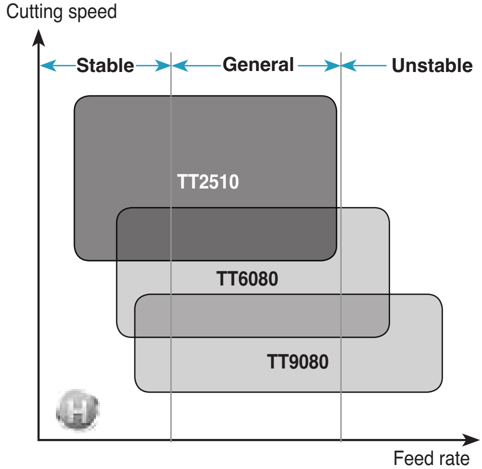
For stainless steel & super alloy



For cast iron



For hardened material



Grades

Carbide grades

Grades	ISO	Charactristics & applications
K10 Carbide	K05 – K15 N05 – N15 S05 – S15	• General machining of cast iron, aluminum alloys and non-ferrous materials
TT2510 PVD coated	P05 – P25 H05 – H25	• High speed milling of pre-hardened steel and hardened steel
TT6080 PVD coated	K05 – K25 H05 – H25	• General machining for gray and ductile cast iron • Finish and medium machining of hardened steel
TT7080 PVD coated	P05 – P25 K05 – K25	• General milling of steel • Heavy interrupted cutting of cast iron
TT9080 PVD coated	P20 – P40 M20 – M40 S20 – S40	• General machining of steel, stainless steel and heat-resistant alloy
TT9030 PVD coated	P20 – P40 M20 – M40 S20 – S40	• General machining of steel, stainless steel and heat-resistant alloy
TT8080 PVD coated	P30 – P50 M30 – M50 S30 – S50	• Interrupted and rough machining of steel and stainless steel • Low speed and interrupted machining of heat-resistant alloy
TT8020 PVD coated	P30 – P50 M30 – M50 S30 – S50	• Interrupted and rough machining of steel and stainless steel • Low speed and interrupted machining of heat-resistant alloy
TT5515 PVD coated	P10 – P30 M10 – M30 K10 – K30 S10 – S30 H10 – H30	• High speed milling of steel and hardened steel • General milling of stainless steel, cast iron and heat-resistant alloy
TT5525 PVD coated	P20 – P40 M20 – M40 S20 – S40	• General machining of steel, stainless steel and heat-resistant alloy
TT7515 CVD coated	K05 – K25 H05 – H25	• General machining for gray and ductile cast iron • Finish and medium machining of hardened steel
TT8525B CVD coated	P30 – P45 M30 – M45	• Rough milling & high speed drilling of carbon & alloy steel • Medium speed milling of stainless steel

Grades

Cermet, ceramic and CBN grades

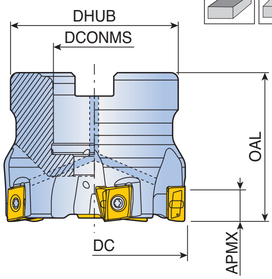
Grades	ISO	Charactristics & applications
CT7000 cermet	P15 – P25 M15 – M25	• Finish milling of steel and stainless steel
AS10 Ceramic	K20 – K30	• General milling of cast iron
TC3030 Ceramic	S25 – S35	• High feed milling of super alloy • SiAlON ceramic grade
TB7015 CBN	H25 – H35 K10 – K20	• Machining of hardened steel • High speed machining of cast iron

Milling Cutters

4T-TF90-09/14

Face mills

90°



Designation	No. of teeth	DC	DCONMS	DHUB	OAL	APMX	Coolant hole	Arbor style	Kg	Mounting bolt	Insert
4T-TF90-640-16R-09	6	40	16	38	40	8.3	●	A	0.3	SH M8x30	LPK(H)U
550-22R-09	5	50	22	45	40	8.3	●	A	0.4	SH M10x30	0904...
750-22R-09	7	50	22	45	40	8.3	●	A	0.4	SH M10x30	E251
663-22R-09	6	63	22	47	40	8.3	●	A	0.5	SH M10x30	
1063-22R-09	10	63	22	47	40	8.3	●	A	0.5	SH M10x30	
4T-TF90-440-16R-14	4	40	16	38	40	12.5	●	A	0.3	SH M8x30	LPKU
450-22R-14	4	50	22	45	40	12.5	●	A	0.3	SH M10x30	1407...
650-22R-14	6	50	22	45	40	12.5	●	A	0.3	SH M10x30	E251
563-22R-14	5	63	22	47	40	12.5	●	A	0.5	SH M10x30	
863-22R-14	8	63	22	47	40	12.5	●	A	0.5	SH M10x30	
780-27R-14	7	80	27	58	50	12.5	●	A	1.0	SH M12x35	
1080-27R-14	10	80	27	58	50	12.5	●	A	1.2	SH M12x35	
8100-32R-14	8	100	32	85	50	12.5	●	A	2.0	SH M16x35	
12100-32R-14	12	100	32	85	50	12.5	●	A	2.1	SH M16x35	
10125-40R-14	10	125	40	85	63	12.5	●	A	3.1	SH M20x40	
14125-40R-14	14	125	40	85	63	12.5	●	A	3.3	SH M20x40	
12160-40R-14	12	160	40	110	63	12.5	x	C	4.1	-	
16160-40R-14	16	160	40	110	63	12.5	x	C	4.3	-	
14200-60R-14	14	200	60	130	63	12.5	x	C	5.7	-	
18200-60R-14	18	200	60	130	63	12.5	x	C	5.8	-	

Dimension (mm): DC, DCONMS, DHUB, OAL, APMX

- Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

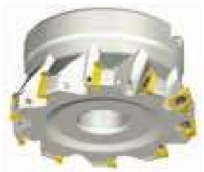
Spare parts

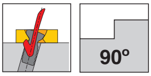
Designation	Screw	Wrench	Wrench handle		
4T-TF90-09	TS 30D082-P	TBLD T08P-W4	THND 4W	-	
4T-TF90-14	TS 40G110I	TBLD T15-W6	-	SW6-T	

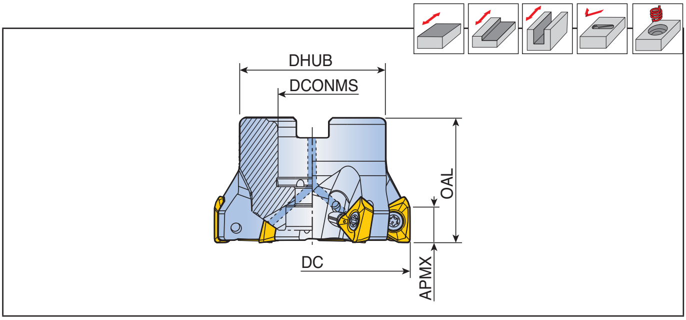
Cutting Condition E287-E289 | Arbor Style E290-E291 | Ramping Data E306-E307

3P TF90-06/10/15

Face mills





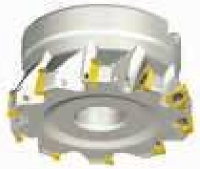


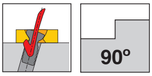
Designation		Dimension (mm)					Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCONMS	DHUB	OAL	APMX					
3P TF90- 632-16R-06	6	32	16	30	32	4.7	●	A	0.1	SH M8x30	3PK(H)T 0603...
732-16R-06	7	32	16	30	32	4.7	●	A	0.1	SH M8x30	E227
735-16R-06	7	35	16	30	35	4.7	●	A	0.1	SH M8x30	
840-16R-06	8	40	16	38	40	4.7	●	A	0.2	SH M8x30	
840-22R-06	8	40	22	38	40	4.7	●	A	0.2	SH M10x30	
3P TF90- 540-16R-10	5	40	16	38	40	7	●	A	0.3	SH M8x30	3PK(H)T 1004...
640-16R-10	6	40	16	38	40	7	●	A	0.3	SH M8x30	E227
650-22R-10	6	50	22	45	40	7	●	A	0.4	SH M10x30	
750-22R-10	7	50	22	45	40	7	●	A	0.4	SH M10x30	
663-22R-10	6	63	22	45	40	7	●	A	0.5	SH M10x30	
863-22R-10	8	63	22	47	40	7	●	A	0.5	SH M10x30	
963-22R-10	9	63	22	47	40	7	●	A	0.5	SH M10x30	
3P TF90- 450-22R-15	4	50	22	45	40	11	●	A	0.3	SH M10x30	3PK(H)T 1505...
550-22R-15	5	50	22	45	40	11	●	A	0.3	SH M10x30	E227-E228
463-22R-15-B	4	63	22	47	40	11	●	A	0.5	SH M10x30	
663-22R-15	6	63	22	47	40	11	●	A	0.5	SH M10x30	
480-27R-15-B	4	80	27	58	50	11	●	A	1.0	SH M12x35	
780-27R-15	7	80	27	58	50	11	●	A	1.0	SH M12x35	
880-27R-15	8	80	27	58	50	11	●	A	1.0	SH M12x35	
6100-32R-15-B	6	100	32	85	50	11	●	A	1.8	LH M16x35	
8100-32R-15	8	100	32	85	50	11	●	A	1.9	LH M16x35	
10100-32R-15	10	100	32	85	50	11	●	A	1.9	LH M16x35	
7125-40R-15-B	7	125	40	85	63	11	●	A	3.0	SH M20x40	
10125-40R-15	10	125	40	85	63	11	●	A	3.1	SH M20x40	
12125-40R-15	12	125	40	85	63	11	●	A	3.1	SH M20x40	
12160-40R-15	12	160	40	110	63	11	x	C	4.4	-	
15160-40R-15	15	160	40	110	63	11	x	C	4.4	-	
15200-60R-15	15	200	60	130	63	11	x	C	6.0	-	
18200-60R-15	18	200	60	130	63	11	x	C	5.8	-	

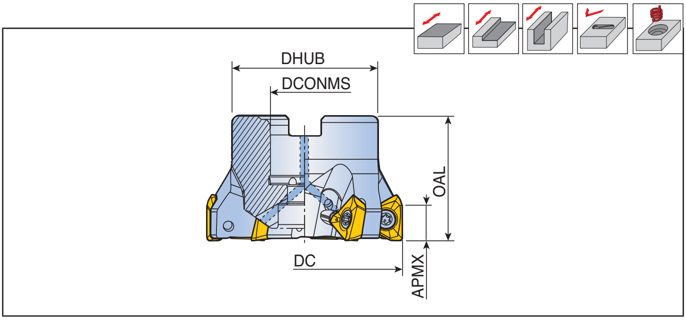
3P TF90-19

MILLRUSH

Face mills





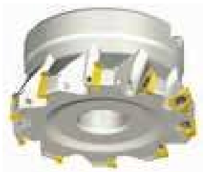


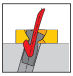
Designation		Dimension (mm)					Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCONMS	DHUB	OAL	APMX					
3P TF90- 463-22R-19	4	63	22	47	40	15	●	A	0.4	SH M10x30	3PK(H)T 1906...
663-22R-19	6	63	22	47	40	15	●	A	0.9	SH M10x30	E227-E228
480-27R-19	4	80	27	58	50	15	●	A	0.9	SH M12x35	
780-27R-19	7	80	27	58	50	15	●	A	1.0	SH M12x35	
6100-32R-19	6	100	32	85	50	15	●	A	1.8	LH M16x35	
8100-32R-19	8	100	32	85	50	15	●	A	2.6	LH M16x35	
8125-40R-19	8	125	40	85	63	15	●	A	3.0	SH M20x40	
10125-40R-19	10	125	40	85	63	15	●	A	3.1	SH M20x40	
8160-40R-19	8	160	40	110	63	15	x	C	4.2	-	
12160-40R-19	12	160	40	110	63	15	x	C	4.3	-	
10200-60R-19	10	200	60	130	63	15	x	C	6.0	-	
14200-60R-19	14	200	60	130	63	15	x	C	6.0	-	
12250-60R-19	12	250	60	160	63	15	x	C	10.5	-	
16250-60R-19	16	250	60	160	63	15	x	C	10.5	-	

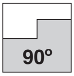
Cutting Condition E287-E289
Arbor Style E290-E291
Ramping Data E308-E310

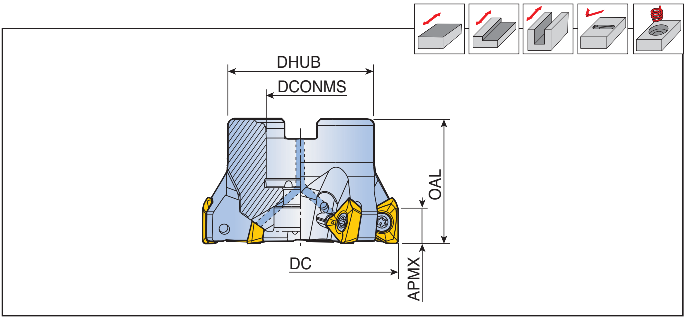
3P TF90-15/19

Face mills (Inch bore)









Designation		Dimension (mm) DC	DCONMS	DHUB	OAL	APMX	Coolant hole	Arbor style	Kg	Mounting bolt	Insert
3P TF90- 780-25.4R-15	7	80	25.4	70	50	11	●	A	1.0	SH M12x35	3PK(H)T 1505... E227-E228
880-25.4R-15	8	80	25.4	70	50	11	●	A	1.0	SH M12x35	
8100-31.75R-15	8	100	31.75	80	50	11	x	B	1.9	-	
10100-31.75R-15	10	100	31.75	80	50	11	x	B	1.9	-	
10125-38.1R-15	10	125	38.1	80	63	11	x	B	3.1	-	
12125-38.1R-15	12	125	38.1	80	63	11	x	B	3.1	-	
12160-50.8R-15	12	160	50.8	100	63	11	x	B	4.4	-	
15160-50.8R-15	15	160	50.8	100	63	11	x	B	4.4	-	
15200-47.625R-15	15	200	47.625	130	63	11	x	C	6.0	-	
3P TF90- 480-25.4R-19	4	80	25.4	70	50	15	●	A	0.9	SH M12x35	3PK(H)T 1906... E227-E228
780-25.4R-19	7	80	25.4	70	50	15	●	A	1.0	SH M12x35	
6100-31.75R-19	6	100	31.75	80	50	15	x	B	1.8	-	
8100-31.75R-19	8	100	31.75	80	50	15	x	B	2.6	-	
8125-38.1R-19	8	125	38.1	80	63	15	x	B	3.0	-	
10125-38.1R-19	10	125	38.1	80	63	15	x	B	3.1	-	
8160-50.8R-19	8	160	50.8	100	63	15	x	B	4.2	-	
12160-50.8R-19	12	160	50.8	100	63	15	x	B	4.3	-	
10200-47.625R-19	10	200	47.625	130	63	15	x	C	6.0	-	
14200-47.625R-19	14	200	47.625	130	63	15	x	C	6.0	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

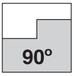
Spare parts

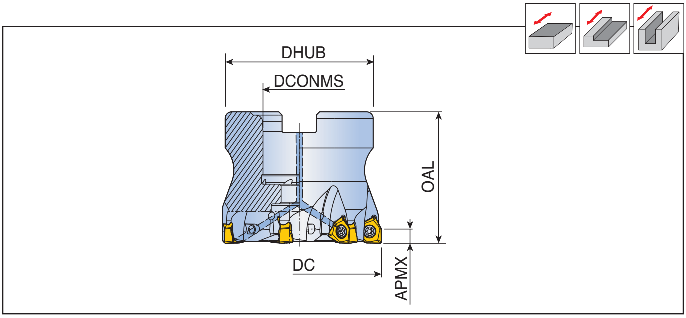
Designation	Screw	Wrench			
3P TF90-06	TS 20043I/HG-P	TD 6P	-		
3P TF90-10	TS 25C065I/HG	TD 8	-		
3P TF90-15	TS 40B100I	TD 15	-		
3P TF90-19	TS 45120I	-	T-T20		

Cutting Condition E287-E289
Arbor Style E290-E291
Ramping Data E308-E310

6N TF90-04

Face mills





Designation	Teeth	DC	DCONMS	DHUB	OAL	APMX	Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		Dimension (mm)									
6N TF90-540-16R-04	5	40	16	38	40	4.1	●	A	0.2	SH M8x30	6NKU 0403... E233
740-16R-04	7	40	16	38	40	4.1	●	A	0.2	SH M8x30	
750-22R-04	7	50	22	45	40	4.1	●	A	0.3	LH M10x25	
950-22R-04	9	50	22	45	40	4.1	●	A	0.3	LH M10x25	
863-22R-04	8	63	22	47	40	4.1	●	A	0.5	LH M10x25	
1063-22R-04	10	63	22	47	40	4.1	●	A	0.5	LH M10x25	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

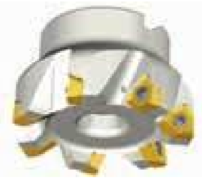
Spare parts

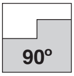
Designation	Screw	Wrench			
6N TF90-04	TS 25064I	TD 8			

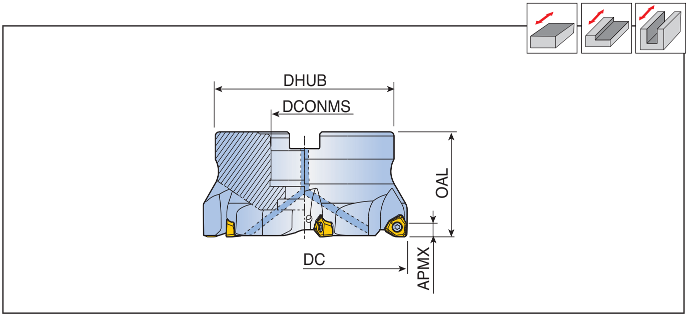
Cutting Condition E287-E289
Arbor Style E290-E291

6N TF90-06/09

Face mills







Designation	Z	Dimension (mm)					Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCONMS	DHUB	OAL	APMX					
6N TF90-440-16R-06	4	40	16	38	40	6.2	●	A	0.3	SH M8x30	6NGU 0604...
450-22R-06	4	50	22	45	40	6.2	●	A	0.4	LH M10x25	E232
650-22R-06	6	50	22	45	40	6.2	●	A	0.4	LH M10x25	
463-22R-06	4	63	22	47	40	6.2	●	A	0.5	LH M10x25	
663-22R-06	6	63	22	47	40	6.2	●	A	0.5	LH M10x25	
763-22R-06	7	63	22	47	40	6.2	●	A	0.5	LH M10x25	
580-27R-06	5	80	27	58	50	6.2	●	A	1.0	SH M12x35	
780-27R-06	7	80	27	58	50	6.2	●	A	1.0	SH M12x35	
980-27R-06	9	80	27	58	50	6.2	●	A	1.0	SH M12x35	
6100-32R-06	6	100	32	85	50	6.2	●	A	1.9	SH M16x35	
8100-32R-06	8	100	32	85	50	6.2	●	A	1.9	SH M16x35	
11100-32R-06	11	100	32	85	50	6.2	●	A	1.9	SH M16x35	
7125-40R-06	7	125	40	85	63	6.2	●	A	3.2	SH M20x40	
11125-40R-06	11	125	40	85	63	6.2	●	A	3.2	SH M20x40	
14125-40R-06	14	125	40	85	63	6.2	●	A	3.2	SH M20x40	
6N TF90-450-22R-09	4	50	22	45	40	9.2	●	A	0.3	LH M10x25	6NGU 0905...
550-22R-09	5	50	22	45	40	9.2	●	A	0.4	LH M10x25	E232
463-22R-09	4	63	22	47	40	9.2	●	A	0.5	LH M10x25	
663-22R-09	6	63	22	47	40	9.2	●	A	0.5	LH M10x25	
763-22R-09	7	63	22	47	40	9.2	●	A	0.5	LH M10x25	
580-27R-09	5	80	27	58	50	9.2	●	A	1.0	SH M12x35	
780-27R-09	7	80	27	58	50	9.2	●	A	1.1	SH M12x35	
980-27R-09	9	80	27	58	50	9.2	●	A	1.1	SH M12x35	
6100-32R-09	6	100	32	85	50	9.2	●	A	1.9	LH M16x35	
8100-32R-09	8	100	32	85	50	9.2	●	A	1.8	LH M16x35	
11100-32R-09	11	100	32	85	50	9.2	●	A	1.9	LH M16x35	
7125-40R-09	7	125	40	85	63	9.2	●	A	3.1	SH M20x40	
11125-40R-09	11	125	40	85	63	9.2	●	A	3.1	SH M20x40	
14125-40R-09	14	125	40	85	63	9.2	●	A	3.2	SH M20x40	
12160-40R-09	12	160	40	110	63	9.2	x	C	4.3	-	
16160-40R-09	16	160	40	110	63	9.2	x	C	4.3	-	
14200-60R-09	14	200	60	130	63	9.2	x	C	5.9	-	
18200-60R-09	18	200	60	130	63	9.2	x	C	5.9	-	
18250-60R-09	18	250	60	160	63	9.2	x	C	10.7	-	
22250-60R-09	22	250	60	160	63	9.2	x	C	10.8	-	

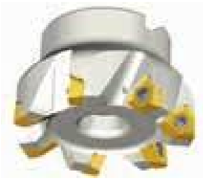
Cutting Condition E287-E289

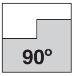
Arbor Style E290-E291

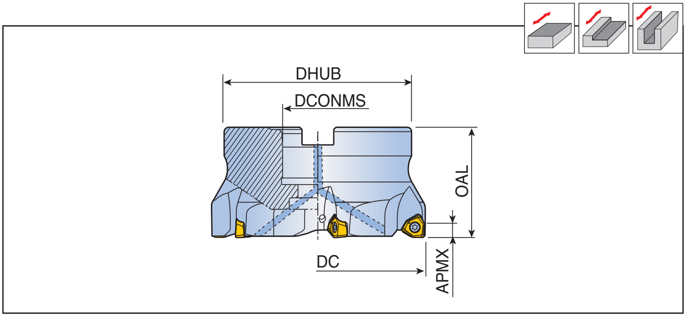
6N TF90-06/09

MILL2RUSH

Face mills (Inch bore)



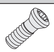
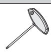




Designation		Dimension (mm) DC	DCONMS	DHUB	OAL	APMX	Coolant hole	Arbor style	Kg	Mounting bolt	Insert
6N TF90-580-25.4R-06	5	80	25.4	70	50	6.2	●	A	1.0	SH M12x35	6NGU 0604...
780-25.4R-06	7	80	25.4	70	50	6.2	●	A	1.0	SH M12x35	E232
980-25.4R-06	9	80	25.4	70	50	6.2	●	A	1.0	SH M12x35	
6100-31.75R-06	6	100	31.75	80	50	6.2	x	B	1.9	-	
8100-31.75R-06	8	100	31.75	80	50	6.2	x	B	1.9	-	
11100-31.75R-06	11	100	31.75	80	50	6.2	x	B	1.9	-	
7125-38.1R-06	7	125	38.1	80	63	6.2	x	B	3.2	-	
11125-38.1R-06	11	125	38.1	80	63	6.2	x	B	3.2	-	
14125-38.1R-06	14	125	38.1	80	63	6.2	x	B	3.2	-	
6N TF90-580-25.4R-09	5	80	25.4	58	50	9.2	●	A	1.0	SH M12x35	6NGU 0905...
780-25.4R-09	7	80	25.4	58	50	9.2	●	A	1.1	SH M12x35	E232
980-25.4R-09	9	80	25.4	58	50	9.2	●	A	1.1	SH M12x35	
6100-31.75R-09	6	100	31.75	80	50	9.2	x	B	1.9	-	
8100-31.75R-09	8	100	31.75	80	50	9.2	x	B	1.8	-	
11100-31.75R-09	11	100	31.75	80	50	9.2	x	B	1.9	-	
7125-38.1R-09	7	125	38.1	80	63	9.2	x	B	3.1	-	
11125-38.1R-09	11	125	38.1	80	63	9.2	x	B	3.1	-	
14125-38.1R-09	14	125	38.1	80	63	9.2	x	B	3.2	-	
12160-50.8R-09	12	160	50.8	100	63	9.2	x	B	4.3	-	
16160-50.8R-09	16	160	50.8	100	63	9.2	x	B	4.3	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

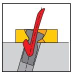
Designation	Screw	Wrench			
					
6N TF90-06	TS 30085I/HG	TD 9	-		
6N TF90-09	TS 40B100I	-	T-T15		

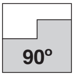
Cutting Condition E287-E289
Arbor Style E290-E291

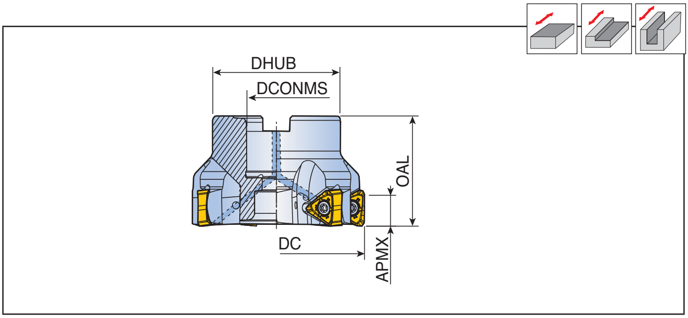
SCRM90TN-18/22

MILL2RUSH

Face mills





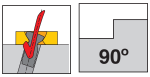


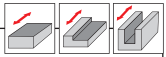
Designation		Teeth	Dimension (mm)					Coolant hole	Arbor style	Kg	Mounting bolt	Insert
			DC	DCONMS	DHUB	OAL	APMX					
SCRM90TN	**450-16R-18**	4	50	16	38	40	13	●	A	0.3	SH M8x30	TNMX 1806...
	563-22R-18	5	63	22	47	40	13	●	A	0.5	SH M10x30	E277
	580-27R-18	5	80	27	58	50	13	●	A	1.1	SH M12x35	
	780-27R-18	7	80	27	58	50	13	●	A	1.1	SH M12x35	
	6100-32R-18-B	6	100	32	85	50	13	●	A	2.0	SH M16x35	
	8100-32R-18	8	100	32	85	50	13	●	A	2.0	SH M16x35	
	7125-40R-18-B	7	125	40	85	63	13	●	A	3.4	SH M20x40	
	10125-40R-18	10	125	40	85	63	13	●	A	3.3	SH M20x40	
	10160-40R-18	10	160	40	110	63	13	x	C	4.5	-	
	14160-40R-18	14	160	40	110	63	13	x	C	4.5	-	
	16200-60R-18	16	200	60	130	63	13	x	C	6.2	-	
SCRM90TN	**350-16R-22**	3	50	16	38	40	15	●	A	0.3	SH M8x30	TNM(G)X 2207...
	463-22R-22	4	63	22	47	40	15	●	A	0.4	SH M10x30	E277
	580-27R-22	5	80	27	58	50	15	●	A	0.9	SH M12x35	
	6100-32R-22	6	100	32	85	50	15	●	A	1.8	SH M16x35	
	8125-40R-22	8	125	40	85	63	15	●	A	3.0	SH M20x40	
	10160-40R-22	10	160	40	110	63	15	x	C	4.2	-	
	12200-60R-22	12	200	60	130	63	15	x	C	6	-	
	14250-60R-22	14	250	60	160	63	15	x	C	10.6	-	

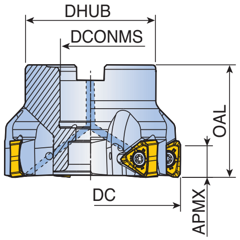
TaeguTec
Member IMC Group

SCRM90TN

Face mills (Inch bore)







Designation		Teeth	Dimension (mm) DC	DCONMS	DHUB	OAL	APMX	Coolant hole	Arbor style	Kg	Mounting bolt	Insert
SCRM90TN	**580-25.4R-18**	5	80	25.4	70	50	13	●	A	1.1	SH M12x35	TNMX 1806...
	780-25.4R-18	7	80	25.4	70	50	13	●	A	1.1	SH M12x35	E277
	6100-31.75R-18-B	6	100	31.75	80	50	13	x	B	2.0	-	
	8100-31.75R-18	8	100	31.75	80	50	13	x	B	2.0	-	
	7125-38.1R-18-B	7	125	38.1	80	63	13	x	B	3.4	-	
	10125-38.1R-18	10	125	38.1	80	63	13	x	B	3.3	-	
	10160-50.8R-18	10	160	50.8	100	63	13	x	C	4.5	-	
	14160-50.8R-18	14	160	50.8	100	63	13	x	C	4.5	-	
	16200-47.625R-18	16	200	47.625	130	63	13	x	C	6.2	-	
SCRM90TN	**580-25.4R-22**	5	80	25.4	70	50	15	●	A	0.9	SH M12x35	TNM(G)X 2207...
	6100-31.75R-22	6	100	31.75	80	50	15	x	B	1.8	-	E277
	8125-38.1R-22	8	125	38.1	80	63	15	x	B	3.0	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

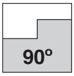
Spare parts

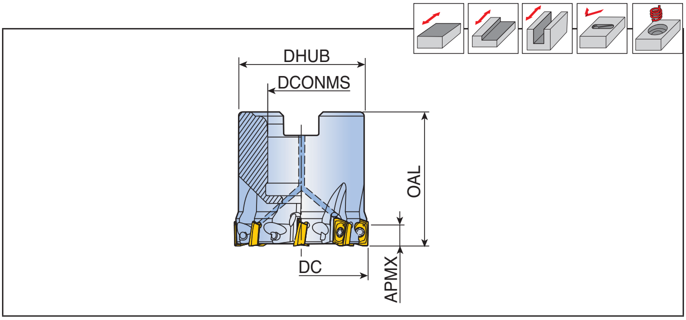
Designation	Screw	Wrench			
SCRM90TN-18	TS 40B100I	T-T15			
SCRM90TN-22	TS 45I20I	T-T20			

Cutting Condition E287-E289

Arbor Style E290-E291

Face mills

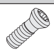


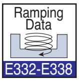


Designation		Teeth	Dimension (mm) DC	DCONMS	DHUB	OAL	APMX	Coolant hole	Arbor style	Kg	Mounting bolt	Insert
TFM90AX	**832-16R-06**	8	32	16	30	32	5.5	●	A	0.1	SH M8x25	AXM(C)T 0602...
	1040-16R-06	10	40	16	38	40	5.5	●	A	0.2	SH M8x25	E241-E242
	1040-22R-06	10	40	22	38	40	5.5	●	A	0.2	SH M10x30	
2S-TFM90AP	**540-16R-09**	5	40	16	38	40	8.8	●	A	0.3	SH M8x30	APK(C)T 09T3...
	640-16R-09	6	40	16	38	40	8.8	●	A	0.2	SH M8x30	E236,E241
	550-22R-09-B	5	50	22	45	40	8.8	●	A	0.3	SH M10x30	
	650-22R-09	6	50	22	45	40	8.8	●	A	0.3	SH M10x30	
	750-22R-09	7	50	22	45	40	8.8	●	A	0.3	SH M10x30	
	863-22R-09	8	63	22	47	40	8.8	●	A	0.5	SH M10x30	
	1080-27R-09	10	80	27	58	50	8.8	●	A	1.1	SH M12x35	
	1080-25.4R-09	10	80	25.4	70	50	8.8	●	A	1.1	SH M12x35	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

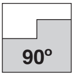
Designation	Screw 	Wrench 			
TFM90AX	TS 18041I/HG	TD 6P			
2S-TFM90AP	TS 25075I/HG	TD 8			

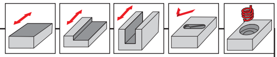


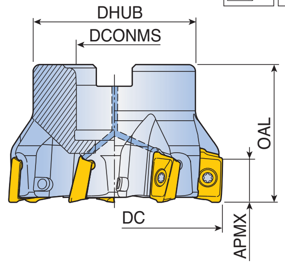
TFM90AP-12/17

CHASEMILL

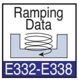
Face mills







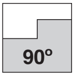
Designation		Dimension (mm)					Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCONMS	DHUB	OAL	APMX					
TFM90AP 440-16R-12	4	40	16	38	40	12	●	A	0.2	SH M8x25	APK(C)T 1204... E237-E238, E241
540-16R-12	5	40	16	38	40	12	●	A	0.2	SH M8x25	
550-22R-12	5	50	22	45	40	12	●	A	0.3	SH M10x30	
650-22R-12	6	50	22	45	40	12	●	A	0.3	SH M10x30	
563-22R-12	5	63	22	47	40	12	●	A	0.5	SH M10x30	
663-22R-12	6	63	22	47	40	12	●	A	0.5	SH M10x30	
763-22R-12	7	63	22	47	40	12	●	A	0.5	SH M10x30	
680-27R-12	6	80	27	58	50	12	●	A	1.0	SH M10x25	
880-27R-12	8	80	27	58	50	12	●	A	1.0	SH M10x25	
TFM90AP 440-16R-17	4	40	16	38	40	16.1	●	A	0.3	SH M8x30	APK(C)T 1705/1706... E238-E239
350-22R-17-B	3	50	22	45	40	16.1	●	A	0.4	SH M10x30	
450-22R-17-B	4	50	22	45	40	16.1	●	A	0.3	SH M10x30	
550-22R-17	5	50	22	45	40	16.1	●	A	0.4	SH M10x30	
463-22R-17-B	4	63	22	47	40	16.1	●	A	0.5	SH M10x30	
663-22R-17	6	63	22	47	50	16.1	●	A	0.5	SH M10x30	
480-27R-17-B	4	80	27	58	50	16.1	●	A	0.8	SH M12x35	
680-27R-17	6	80	27	58	50	16.1	●	A	0.9	SH M12x35	
780-27R-17	7	80	27	58	50	16.1	●	A	0.9	SH M12x35	
6100-32R-17-B	6	100	32	85	50	16.1	●	A	1.3	LH M16x35	
8100-32R-17	8	100	32	85	50	16.1	●	A	1.5	LH M16x35	
7125-40R-17-B	7	125	40	85	63	16.1	●	A	2.9	SH M20x40	
8125-40R-17	8	125	40	85	63	16.1	●	A	3.0	SH M20x40	
9125-40R-17	9	125	40	85	63	16.1	●	A	3.1	SH M20x40	
8160-40R-17-B	8	160	40	110	63	16.1	x	C	4.1	-	
10160-40R-17	10	160	40	110	63	16.1	x	C	4.2	-	
12200-60R-17	12	200	60	130	63	16.1	x	C	6.1	-	

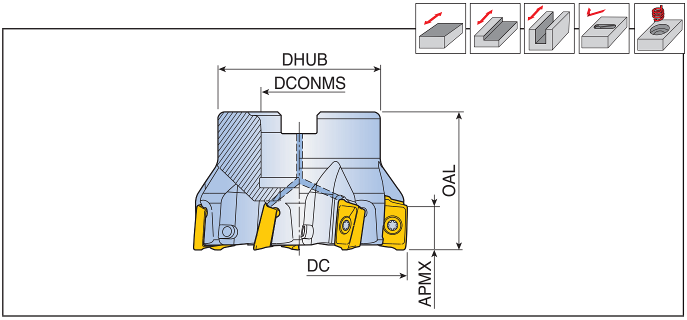


TFM90AP-12/17

CHASEMILL

Face mills (Inch bore)





Designation		Dimension (mm)					Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCONMS	DHUB	OAL	APMX					
TFM90AP 880-25.4R-12	8	80	25.4	70	50	12	●	A	1.0	SH M12x30	APK(C)T 1204... E237-E238, E241
TFM90AP 663-25.4R-17	6	63	25.4	45	40	16.1	●	A	0.5	LM M12x30	APK(C) T 1705/1706... E238-E239
780-25.4R-17	7	80	25.4	70	50	16.1	●	A	0.9	SH M12x35	
8100-31.75R-17	8	100	31.75	80	50	16.1	x	B	1.5	-	
9125-38.1R-17	9	125	38.1	80	63	16.1	x	B	3.1	-	
10160-50.8R-17	10	160	50.8	100	63	16.1	x	B	4.2	-	
12200-47.625R-17	12	200	47.625	130	63	16.1	x	C	6.1	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

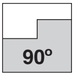
Spare parts

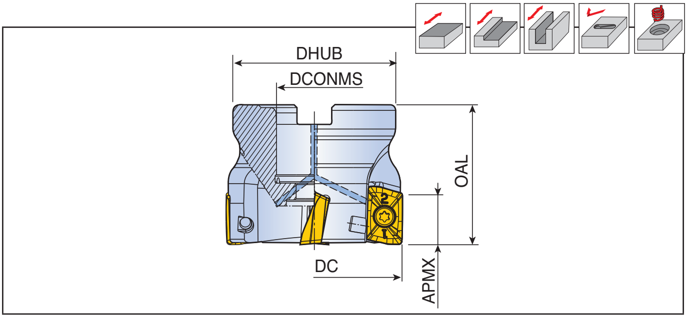
Designation	Screw	Wrench			
TFM90AP-12	TS 35A088I/HG	TD 10P	-		
TFM90AP-17 (Ø40-Ø63)	TS 40093I/HG	-	T-T15		
TFM90AP-17 (Ø80-)	TS 40120I/HG	-	T-T15		

2S-TFM90AP-19

CHASEMILL

Face mills





Designation		Dimension (mm)					Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCONMS	DHUB	OAL	APMX					
2S-TFM90AP350-22R-19	3	50	22	45	45	17.9	●	A	0.3	LH M10x35	APKT 1907...
463-22R-19	4	63	22	47	50	17.9	●	A	0.7	SH M10x30	E240
463-27R-19	4	63	27	58	50	17.9	●	A	0.7	SH M12x35	
680-27R-19	6	80	27	58	50	17.9	●	A	1.1	SH M12x35	
7100-32R-19	7	100	32	85	50	17.9	●	A	1.9	SH M16x35	
6125-40R-19	6	125	40	85	63	17.9	●	A	3.0	SH M20x40	
8125-40R-19	8	125	40	85	63	17.9	●	A	3.0	SH M20x40	
10160-40R-19	10	160	40	110	63	17.9	x	C	4.2	-	
12200-60R-19	12	200	60	130	63	17.9	x	C	6.0	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

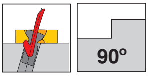
Spare parts

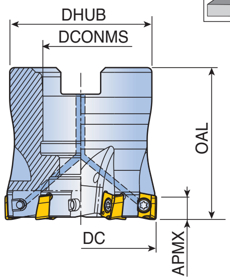
Designation	Screw	Wrench			
2S-TFM90AP-19	TS 50115I	T-T20			

Cutting Condition E287-E289
Arbor Style E290-E291
Ramping Data E332-E338

2P-TF90-05/07

Face mills





Designation		Z	DC	DCONMS	DHUB	OAL	APMX	Coolant hole	Arbor style	Kg	Mounting bolt	Insert
			Dimension (mm)									
2P-TF90-	**632-16R-05**	6	32	16	30	32	4.7	●	A	0.1	SH M8x25	2PKT 0503... E225
	732-16R-05	7	32	16	30	32	4.7	●	A	0.1	SH M8x 25	
	840-16R-05	8	40	16	38	40	4.7	●	A	0.2	SH M8x30	
	840-22R-05	8	40	22	38	40	4.7	●	A	0.2	SH M10x30	
2P-TF90-	**540-16R-07**	5	40	16	38	40	6.0	●	A	0.2	SH M8x30	2PKT 0704... E225
	650-22R-07	6	50	22	45	40	6.0	●	A	0.3	SH M10x30	
	750-22R-07	7	50	22	45	40	6.0	●	A	0.4	SH M10x30	
	763-22R-07	7	63	22	47	40	6.0	●	A	0.5	SH M10x30	
	880-27R-07	8	80	27	58	50	6.0	●	A	1.0	SH M12x35	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench		Wrench handle	
2P-TF90-05	TS 20043I/HG-P	TD 6P	-	-	
2P-TF90-07	TS 30B068I/HG	-	TBLD T08-W4	THND 4W	

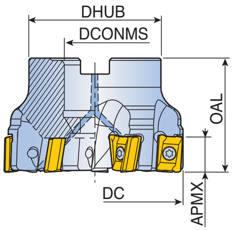
Cutting Condition E287-E289
Arbor Style E290-E291
Ramping Data E339-E341

TFM90AN-11/16

CHASE2MILL

Face mills

90°



Designation		Number of teeth	DC	DCONMS	DHUB	OAL	APMX	Coolant hole	Arbor style	Kg	Mounting bolt	Insert
			Dimension (mm)									
TFM90AN	440-16R-11	4	40	16	38	40	11	●	A	0.2	SH M8x30	ANM(H)X 1106... E235
	450-22R-11	4	50	22	45	40	11	●	A	0.3	SH M10x30	
	650-22R-11	6	50	22	45	40	11	●	A	0.3	SH M10x30	
	563-22R-11	5	63	22	47	40	11	●	A	0.6	SH M10x30	
	763-22R-11	7	63	22	47	40	11	●	A	0.6	SH M10x30	
	880-27R-11	8	80	27	58	50	11	●	A	1.1	SH M12x35	
	1080-27R-11	10	80	27	58	50	11	●	A	1.1	SH M12x35	
	9100-32R-11	9	100	32	85	50	11	●	A	2.0	SH M16x35	
	12100-32R-11	12	100	32	85	50	11	●	A	2.0	SH M16x35	
	10125-40R-11	10	125	40	85	63	11	●	A	3.3	SH M20x40	
	14125-40R-11	14	125	40	85	63	11	●	A	3.4	SH M20x40	
TFM90AN	350-22R-16	3	50	22	45	40	15	●	A	0.4	SH M10x30	ANM(H)X 1607... E235
	450-22R-16	4	50	22	45	40	15	●	A	0.4	SH M10x30	
	463-22R-16	4	63	22	47	40	15	●	A	0.5	SH M10x30	
	663-22R-16	6	63	22	47	40	15	●	A	0.5	SH M10x30	
	580-27R-16	5	80	27	58	50	15	●	A	0.8	SH M12x35	
	780-27R-16	7	80	27	58	50	15	●	A	0.9	SH M12x35	
	5100-32R-16	5	100	32	85	50	15	●	A	1.3	SH M16x35	
	8100-32R-16	8	100	32	85	50	15	●	A	1.5	SH M16x35	
	7125-40R-16	7	125	40	85	63	15	●	A	3.9	SH M20x40	
	10125-40R-16	10	125	40	85	63	15	●	A	3.7	SH M20x40	
	8160-40R-16	8	160	40	110	63	15	x	C	5.0	-	
	12160-40R-16	12	160	40	110	63	15	x	C	5.3	-	
	14200-60R-16	14	200	60	130	63	15	x	C	7.0	-	

Cutting Condition E287-E289

Arbor Style E290-E291

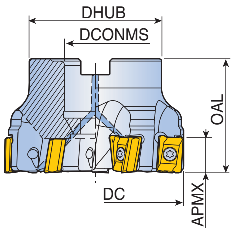
Ramping Data E342

TFM90AN-11/16

CHASE2MILL

Face mills (Inch bore)

90°



Designation		Z	DC	DCONMS	DHUB	OAL	APMX	Coolant hole	Arbor style	Kg	Mounting bolt	Insert
			Dimension (mm)									
TFM90AN	880-25.4R-11	8	80	25.4	70	50	11	●	A	1.1	SH M12x35	ANM(H)X 1106... E235
	1080-25.4R-11	10	80	25.4	70	50	11	●	A	1.1	SH M12x35	
TFM90AN	580-25.4R-16	5	80	25.4	70	50	15	●	A	0.8	SH M12x35	ANM(H)X 1607... E235
	780-25.4R-16	7	80	25.4	70	50	15	●	A	0.9	SH M12x35	
	5100-31.75R-16	5	100	31.75	80	50	15	x	B	1.3	-	
	8100-31.75R-16	8	100	31.75	80	50	15	x	B	1.5	-	
	7125-38.1R-16	7	125	38.1	80	63	15	x	B	3.9	-	
	10125-38.1R-16	10	125	38.1	80	63	15	x	B	3.7	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

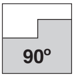
Spare parts

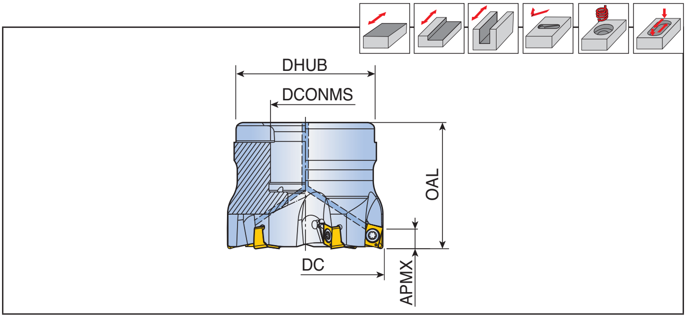
Designation	Screw	Wrench			
TFM90AN-11	TS 35A088I/HG	TD 10P	-		
TFM90AN-16	TS 40120I	-	T-T15		

Cutting Condition E287-E289
Arbor Style E290-E291
Ramping Data E342

4N TF90-04/06/09

Face mills





Designation	Teeth	Dimension (mm) DC	DCONMS	DHUB	OAL	APMX	Coolant hole	Arbor style	Kg	Mounting bolt	Insert
4N TF90- 832-16R-04	8	32	16	30	32	3.5	●	A	0.1	SH M8x25	4NKT 0402....
1040-16R-04	10	40	16	38	40	3.5	●	A	0.2	SH M8x25	E229-E230
4N TF90- 432-16R-06	4	32	16	30	32	6.0	●	A	0.1	SH M8x25	4NK(H)T 0603....
532-16R-06	5	32	16	30	32	6.0	●	A	0.1	SH M8x25	E229-E230
540-16R-06	5	40	16	38	40	6.0	●	A	0.3	SH M8x25	
640-16R-06	6	40	16	38	40	6.0	●	A	0.3	SH M8x25	
650-22R-06	6	50	22	45	40	6.0	●	A	0.4	SH M10x30	
750-22R-06	7	50	22	47	40	6.0	●	A	0.4	SH M10x30	
763-22R-06	7	63	22	47	40	6.0	●	A	0.6	SH M10x30	
863-22R-06	8	63	22	47	40	6.0	●	A	0.6	SH M10x30	
4N TF90- 540-16R-09	5	40	16	38	40	8.0	●	A	0.3	SH M8x25	4NK(H)T 0904...
650-22R-09	6	50	22	45	40	8.0	●	A	0.3	LH M10x25	E229-E230
763-22R-09	7	63	22	47	40	8.0	●	A	0.5	LH M10x25	
980-27R-09	9	80	27	58	50	8.0	●	A	1.1	SH M12x35	

- Cutter body for '4NKT 040212R-HF' insert should be modified with body corner radius 1.2 mm
- Cutter body for '4NKT 060320R-HF' insert should be modified with body corner radius 1.6 mm
- Cutter body for '4NKT 090432R-HF' insert should be modified with body corner radius 3.2 mm
- Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

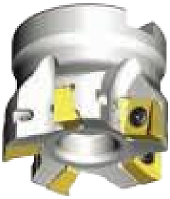
Spare parts

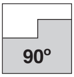
Designation	Screw	Wrench		Wrench handle	
4N TF90-04	TS 18041I/HG	TD 6P	-	-	
4N TF90-06	TS 30B068I/HG	TD 8	-	-	
4N TF90-09	TS 35A088I/HG	-	TBLD T10P-W6	THND 6W	

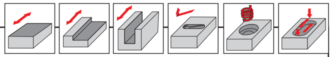
Cutting Condition E287-E289
Arbor Style E290-E291
Ramping Data E311-E331

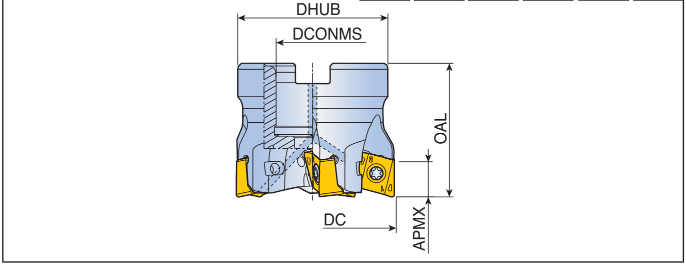
4N TF90-11/14

Face mills





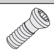
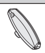




Designation		Dimension (mm)					Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCONMS	DHUB	OAL	APMX					
4N TF90- 440-16R-11	4	40	16	38	40	10.5	●	A	0.2	SH M8x30	4NKT 1106...
450-22R-11	4	50	22	45	40	10.5	●	A	0.3	LH M10x25	E229-E230
550-22R-11	5	50	22	45	40	10.5	●	A	0.3	LH M10x25	
463-22R-11	4	63	22	47	40	10.5	●	A	0.6	LH M10x25	
663-22R-11	6	63	22	47	40	10.5	●	A	0.5	LH M10x25	
480-27R-11	4	80	27	58	50	10.5	●	A	1.1	SH M12x35	
880-27R-11	8	80	27	58	50	10.5	●	A	1.0	SH M12x35	
4N TF90- 450-22R-14	4	50	22	45	45	13.8	●	A	0.4	SH M10x25	4NKT 1407...
463-22R-14	4	63	22	47	45	13.8	●	A	0.6	SH M10x25	E229-E230
663-22R-14	6	63	22	47	45	13.8	●	A	0.6	SH M10x25	
580-27R-14	5	80	27	58	50	13.8	●	A	1.0	SH M12x35	
780-27R-14	7	80	27	58	50	13.8	●	A	1.0	SH M12x35	

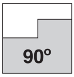
• Cutter body for '4NKT 110640R-HF' insert should be modified with body corner radius 4.0 mm
• Cutter body for ‘4NKT 140750R-HF’ insert should be modified with body corner radius 5.0 mm
• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

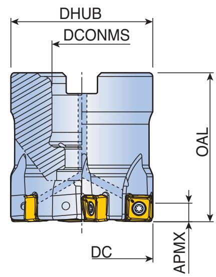
Spare parts

Designation	Screw	Wrench	Wrench handle		
					
4N TF90-11	TS 40093I/HG	TBLD T15-W6	SW6-T		
4N TF90-14	TS 50A121I/HG	TBLD T20-W6	SW6-T		

8D-TF90-07

Face mills





Designation	Z	Dimension (mm) DC	DCONMS	DHUB	OAL	APMX	Coolant hole	Arbor style	Kg	Mounting bolt	Insert
8D-TF90-432-16R-07	4	32	16	30	32	5.0	●	A	0.1	SH M8x25	SQKU 0703... E273
640-16R-07	6	40	16	38	40	5.0	●	A	0.3	SH M8x25	
650-22R-07	6	50	22	45	40	5.0	●	A	0.4	SH M10x30	
850-22R-07	8	50	22	45	40	5.0	●	A	0.4	SH M10x30	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

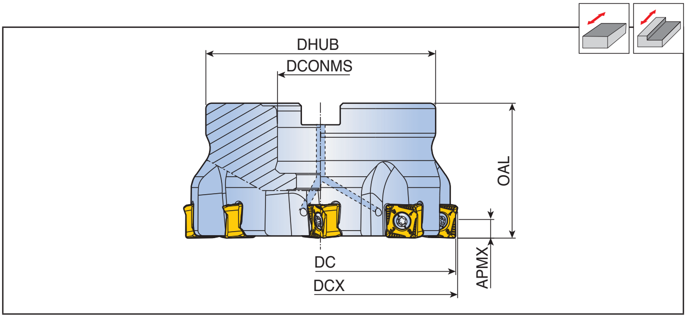
Spare parts

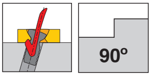
Designation	Screw	Wrench			
8D-TF90-07	TS 25D060/HG-P	TD 7P			

Cutting Condition E287-E289
Arbor Style E290-E291

8D-TF90-12

Face mills

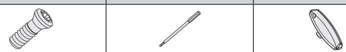




Designation	Z	Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCX	DCONMS	DHUB	OAL	APMX					
8D-TF90-450-22R-12	4	50	51.3	22	45	40	8.5	●	A	0.3	SH M10x30	SQK(H)U 1206... E273
650-22R-12	6	50	51.3	22	45	40	8.5	●	A	0.4	SH M10x30	
563-22R-12	5	63	64.3	22	47	40	8.5	●	A	0.5	SH M10x30	
863-22R-12	8	63	64.3	22	47	40	8.5	●	A	0.6	SH M10x30	
680-27R-12	6	80	81.3	27	58	50	8.5	●	A	1.1	SH M12x35	
1180-27R-12	11	80	81.3	27	58	50	8.5	●	A	1.2	SH M12x35	
8100-32R-12	8	100	101.3	32	66	50	8.5	●	A	1.6	SH M16x35	
14100-32R-12	14	100	101.3	32	66	50	8.5	●	A	1.7	SH M16x35	
10125-40R-12	10	125	126.3	40	85	63	8.5	●	A	3.4	SH M20x40	
18125-40R-12	18	125	126.3	40	85	63	8.5	●	A	3.5	SH M20x40	
12160-40R-12	12	160	161.3	40	110	63	8.5	x	C	4.7	-	
22160-40R-12	22	160	161.3	40	110	63	8.5	x	C	4.9	-	

• DC: Cutting diameter • DCX: Cutting diameter maximum
• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts



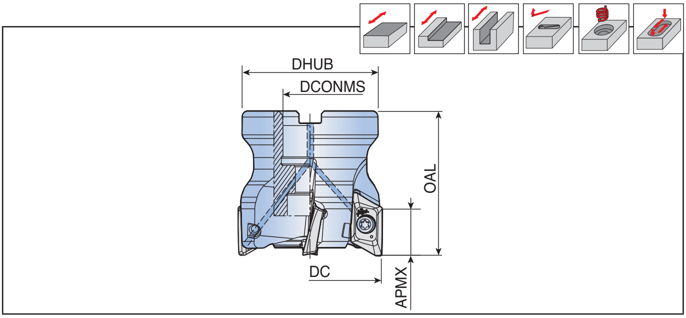
Designation	Screw	Wrench	Wrench handle		
8D-TF90-12	TS 40M100/HG	TBLD T15-W6	SW6-T		

Cutting Condition E287-E289
Arbor Style E290-E291

TFM90XEV-16/22

Face mills

90°



Designation		Z	DC	DCONMS	DHUB	OAL	APMX	Coolant hole	Arbor style	Max RPM	Kg	Mounting bolt	Insert
			Dimension (mm)										
TFM90XEV	**340-16R-16**	3	40	16	38	50	16	●	A	41,200	0.2	SH M8x35-C	XEVT 1605... E280
	450-22R-16	4	50	22	45	50	16	●	A	36,800	0.3	SH M10x30-C	
	563-22R-16	5	63	22	47	50	16	●	A	32,700	0.5	SH M10x30-C	
	580-27R-16	5	80	27	58	50	16	●	A	29,000	0.9	LH M12x30-C	
	680-27R-16	6	80	27	58	50	16	●	A	29,000	0.8	LH M12x30-C	
	6100-32R-16	6	100	32	66	63	16	●	A	26,000	1.6	SH M16x35-C	
	7125-40R-16	7	125	40	85	63	16	●	A	23,200	2.5	SH M20x40-C	
	8160-40R-16	8	160	40	110	63	16	x	C	20,000	3.8	-	
	10200-60R-16	10	200	60	130	63	16	x	C	18,300	5.3	-	
TFM90XEV	**350-22R-22**	3	50	22	45	55	21	●	A	31,400	0.4	SH M10x30-C	XEVT 2206... E280
	463-22R-22	4	63	22	47	55	21	●	A	28,000	0.6	SH M10x30-C	
	580-27R-22	5	80	27	58	55	21	●	A	24,800	1.0	LH M12x30-C	
	6100-32R-22	6	100	32	85	63	21	●	A	22,200	2.1	SH M16x35-C	
	7125-40R-22	7	125	40	85	63	21	●	A	19,900	2.8	SH M20x40-C	
	10200-60R-22	10	200	60	124	63	21	x	C	15,700	5.9	-	

• Cutter body for inserts with corner radii more than 3.2mm (XEVT 16) and 3.0mm (XEVT 22) should be modified as follows: body "RE"=insert "RE"-0.3mm

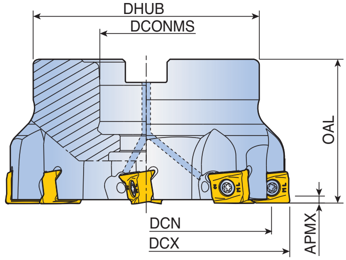
Spare parts

Designation	Screw	Wrench			
TFM90XEV-16	TS 40093I/HG	T-T15			
TFM90XEV-22	TS 50115I	T-T20			

Cutting Condition E287-E289
Arbor Style E290-E291
Ramping Data E343-E347

4W-TF90-12

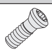
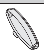
Face mills for finishing



Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DCX	DCN	DCONMS	DHUB	OAL	APMX					
4W-TF90-550-22R-12	5	50	38.9	22	45	40	0.5	●	A	0.4	SH M10x30	4WHU 1207... E231
663-22R-12	6	63	50.9	22	47	40	0.5	●	A	0.5	SH M10x30	
880-27R-12	8	80	66.9	27	58	50	0.5	●	A	1.1	SH M12x35	
8100-32R-12	8	100	86.9	32	66	50	0.5	●	A	1.6	SH M16x35	
10125-40R-12	10	125	110.9	40	85	63	0.5	●	A	3.1	SH M20x40	
10160-40R-12	10	160	145.9	40	110	63	0.5	x	C	4.1	-	

• DCN: Cutting diameter minimum • DCX: Cutting diameter maximum
• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench	Wrench handle		
					
4W-TF90-12	TS 40A115I	TBLD T15-W6	SW6-T		

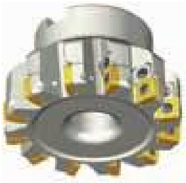
E287-E289

E290-E291

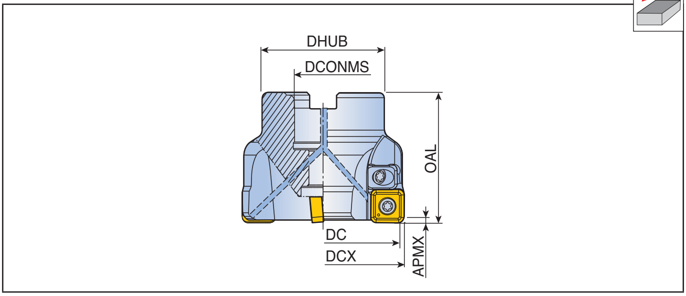
TFM90SNS-12

CHASE2QUAD

Face mills for finishing



90°



Designation		Teeth	Dimension (mm) DCX	DC	DCONMS	DHUB	OAL	APMX	Coolant hole	Arbor style	Kg	Mounting bolt	Insert
TFM90SNS	350-22R-12	3	50	43.35	22	45	50	1.0	●	A	0.5	SH M10x40	SNEX 1204... SNET 1205... E267
	463-22R-12	4	63	56.35	22	47	50	1.0	●	A	0.7	SH M10x40	
	680-27R-12	6	80	73.35	27	58	50	1.0	●	A	1.0	SH M12x35	
	8100-32R-12	8	100	93.35	32	66	63	1.0	●	A	2.0	SH M16x30	
	12100-32R-12	12	100	93.35	32	66	63	1.0	●	A	2.0	SH M16x30	
	10125-40R-12	10	125	118.35	40	85	63	1.0	x	B	2.9	-	
	16125-40R-12	16	125	118.35	40	85	63	1.0	x	B	2.9	-	
	12160-40R-12	12	160	153.35	40	110	63	1.0	x	C	4.4	-	
	20160-40R-12	20	160	153.35	40	110	63	1.0	x	C	4.4	-	
	16200-60R-12	16	200	193.35	60	130	63	1.0	x	C	6.0	-	
	24200-60R-12	24	200	193.35	60	130	63	1.0	x	C	6.0	-	
	30250-60R-12	30	250	243.35	60	160	63	1.0	x	C	10.8	-	

- Recommend to very stable machining condition at cast iron & steel
- Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Adj. wedge	Adj. screw	Wrench	
TFM90SNS-12	TS 35C110I	AJS 1010R	AWS 0620	T-T15	

Cutting Condition E287-E289

Arbor Style E290-E291

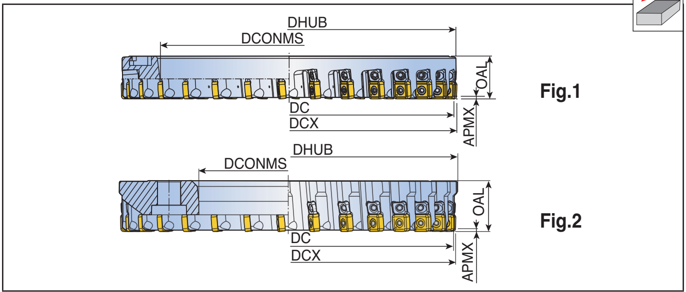
Technical Data E297-E298

TFM90SNS-12-QC/TQ90SNS-12

CHASE2QUAD

Quick change type face mills for finishing

90°



Designation		Teeth	Dimension (mm) DCX	DC	DCONMS	DHUB	OAL	APMX	Fig.	Kg	Adaptor	Insert
TFM90SNS	**20250-12-QC**	20	250	243.35	190.37	248.59	32	1.0	1	3.6	TQCA D250	SNEX 1204...
	30250-12-QC	30	250	243.35	190.37	248.59	32	1.0	1	3.6	TQCA D250	SNET 1205...
	24315-12-QC	24	315	308.35	230.33	313	38	1.0	1	8.1	TQCA D315	E267
	36315-12-QC	36	315	308.35	230.33	313	38	1.0	1	8.1	TQCA D315	
	28355-12-QC	28	355	348.35	270.33	353	38	1.0	1	9.2	TQCA D355	
	42355-12-QC	42	355	348.35	270.33	353	38	1.0	1	9.2	TQCA D355	
	32400-12-QC	32	400	393.35	315.33	398	38	1.0	1	10.5	TQCA D400	
	48400-12-QC	48	400	393.35	315.33	398	38	1.0	1	10.6	TQCA D400	
TQ90SNS	**20250R-12**	20	250	243.35	133.35	253	38	1.0	2	7.5	QA 10 K/M	
	30250R-12	30	250	243.35	133.35	253	38	1.0	2	7.5	QA 10 K/M	
	36315R-12	36	315	308.35	146.05	317	38	1.0	2	14.0	QA 12 K/M	
	28355R-12	28	355	348.35	215.9	357	38	1.0	2	12.8	QA 14 K/M	
	42355R-12	42	355	348.35	215.9	357	38	1.0	2	12.8	QA 14 K/M	
	32400R-12	32	400	393.35	254	402	38	1.0	2	16.0	QA 16 K/M	

• Recommend to very stable machining condition at cast iron & steel

Spare parts

Designation	Screw	Adj. wedge	Adj. screw	Wrench	
TFM90SNS-12-QC	TS 35C110I	AJS 1010R	AWS 0620	T-T15	
TQ90SNS-12	TS 35C110I	AJS 1010R	AWS 0620	T-T15	

Cutting Condition E287-E289

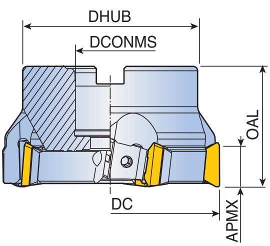
Technical Data E292-E294

Technical Data E297-E298

LM90TP-22

Face mills

90°



Designation		Dimension (mm)					Arbor style	Kg	Mounting bolt	Insert
		DC	DCONMS	DHUB	OAL	APMX				
LM90TP 480-25.4R-22	4	80	25.4	70	50	17.6	A	1.2	SH M12x35	TPKN 2204...
5100-31.75R-22	5	100	31.75	80	55	17.6	A	2.2	SH M16x35	E278
6125-38.1R-22	6	125	38.1	80	63	17.6	B	3.0	-	
8160-50.8R-22	8	160	50.8	100	63	17.6	B	4.7	-	
10200-47.625R-22	10	200	47.625	130	63	17.6	C	6.4	-	
12250-47.625R-22	12	250	47.625	160	63	17.6	C	10.7	-	
14315-47.625R-22	14	315	47.625	220	63	17.6	D	16.7	-	

• Metric bore cutter is available upon request

Spare parts

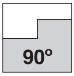
Designation	Carbide shim	Wedge	Shim screw	Wedge screw	Wrench	Shim screw wrench
LM90TP-22	TSTP 22N	WPA 8	TS 40B100I	TS 80200W TS 80160W(1)	T-W 4	T-T15(2)

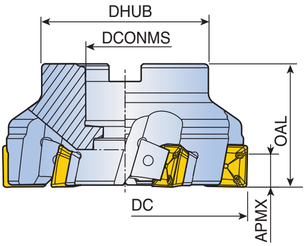
Cutting Condition E287-E289 | Arbor Style E290-E291

• (1)TS 80160W is for D80 cutter
• The shim screw wrench T-T15(2) shall be ordered separately

LM90SE-21

Face mills





Designation		Teeth	Dimension (mm) DC	DCONMS	DHUB	OAL	APMX	Arbor style	Kg	Mounting bolt	Insert
LM90SE	**6125-40R-21**	6	125	40	85	63	17.0	A	3.4	SH M20x40	SEKX 2107... E265
	8160-40R-21	8	160	40	110	63	17.0	C	5.3	-	
	10200-60R-21	10	200	60	130	80	17.0	C	9.6	-	
	12200-60R-21	12	200	60	130	80	17.0	C	9.5	-	
	12250-60R-21	12	250	60	160	80	17.0	C	16.4	-	
	14250-60R-21	14	250	60	160	80	17.0	C	16.4	-	
	12315-60R-21	12	315	60	220	80	17.0	D	21.0	-	
	16315-60R-21	16	315	60	220	80	17.0	D	20.7	-	
LM90SE	**6125-38.1R-21**	6	125	38.1	85	63	17.0	B	3.4	-	
	8160-50.8R-21	8	160	50.8	110	63	17.0	B	5.3	-	
	10200-47.625R-21	10	200	47.625	130	80	17.0	C	9.6	-	
	12200-47.625R-21	12	200	47.625	130	80	17.0	C	9.5	-	
	12250-47.625R-21	12	250	47.625	160	80	17.0	C	16.4	-	
	14250-47.625R-21	14	250	47.625	160	80	17.0	C	16.4	-	
	12315-47.625R-21	12	315	47.625	220	80	17.0	D	21.0	-	
	16315-47.625R-21	16	315	47.625	220	80	17.0	D	20.7	-	

Spare parts

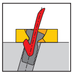
Designation	Shim	Shim screw	Wedge	Wedge screw	Wedge screw wrench	Shim screw wrench
LM90SE-21	TSSE 21N-ST	TS 50C130I/ HG	WPA 8-SE16	TS 80160W TS 80200W	T-W 4	T-T20 (1)

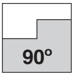
Cutting Condition E287-E289 | Arbor Style E290-E291

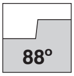
- The shim screw wrench(1) shall be ordered separately
- Wedge screw TS 80160W : Diameter 125 – 200 mm
  TS 80200W : Diameter 250 – 315 mm

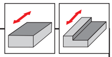
TFM90SN/TFM88SN-13

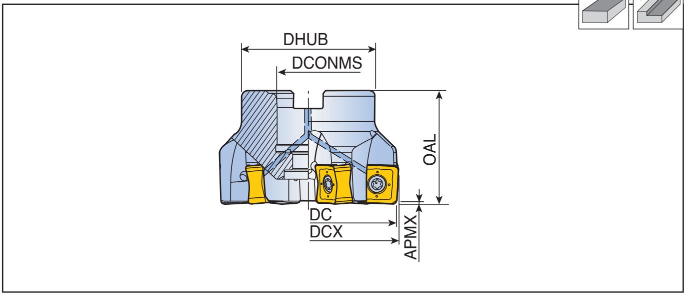
Face mills











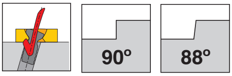
Designation		Teeth	Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
			DC	DCX	DCONMS	DHUB	OAL	APMX					
TFM90SN	**550-22R-13**	5	50	50.7	22	45	40	12.0	●	A	0.3	SH M10x30	SNGX
	663-22R-13	6	63	63.7	22	47	40	12.0	●	A	0.5	SH M10x30	1306 ...
	780-27R-13	7	80	80.7	27	70	50	12.0	●	A	1.2	SH M12x35	E269
	980-27R-13*	9	80	80.7	27	70	50	12.0	●	A	1.2	SH M12x35	
	8100-32R-13	8	100	100.8	32	85	50	12.0	●	A	1.9	SH M16x30	
	13100-32R-13*	13	100	100.8	32	85	50	12.0	●	A	1.9	SH M16x30	
	10125-40R-13	10	125	125.8	40	85	63	12.0	x	B	2.8	-	
	16125-40R-13*	16	125	125.8	40	85	63	12.0	x	B	2.8	-	
TFM88SN	**550-22R-13**	5	50	51.2	22	45	40	12.0	●	A	0.3	SH M10x30	SNGX
	663-22R-13	6	63	64.2	22	47	40	12.0	●	A	0.5	SH M10x30	1306 ZN...
	780-27R-13	7	80	81.2	27	70	50	12.0	●	A	1.2	SH M12x35	E269
	980-27R-13*	9	80	81.2	27	70	50	12.0	●	A	1.2	SH M12x35	
	8100-32R-13	8	100	101.2	32	85	50	12.0	●	A	1.9	SH M16x30	
	11100-32R-13*	11	100	101.2	32	85	50	12.0	●	A	1.9	SH M16x30	
	10125-40R-13	10	125	126.1	40	85	63	12.0	x	B	2.8	-	
	14125-40R-13*	14	125	126.1	40	85	63	12.0	x	B	2.8	-	
	12160-40R-13	12	160	161.1	40	110	63	12.0	x	C	4.2	-	
	18160-40R-13*	18	160	161.1	40	110	63	12.0	x	C	4.2	-	
	14200-60R-13	14	200	201.1	60	130	63	12.0	x	C	6.0	-	
	22200-60R-13*	22	200	201.1	60	130	63	12.0	x	C	6.0	-	

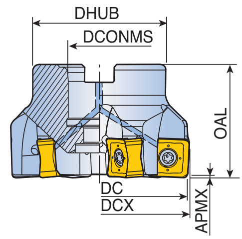
- *: Fine pitch cutter for cast iron
- Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

TFM90SN/TFM88SN-13

CHASE2QUAD

Face mills (Inch bore)





Designation		Z	Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
			DC	DCX	DCONMS	DHUB	OAL	APMX					
TFM90SN	780-25.4R-13	7	80	80.7	25.4	70	50	12.0	●	A	1.2	SH M12x35	SNGX
	980-25.4R-13*	9	80	80.7	25.4	70	50	12.0	●	A	1.2	SH M12x35	1306 ...
	8100-31.75R-13	8	100	100.8	31.75	80	50	12.0	x	B	1.9	-	E269
	13100-31.75R-13*	13	100	100.8	31.75	80	50	12.0	x	B	1.9	-	
	10125-38.1R-13	10	125	125.8	38.1	80	63	12.0	x	B	2.8	-	
TFM88SN	780-25.4R-13	7	80	81.2	25.4	70	50	12.0	●	A	1.2	SH M12x35	SNGX
	980-25.4R-13*	9	80	81.2	25.4	70	50	12.0	●	A	1.2	SH M12x35	1306 ZN...
	8100-31.75R-13	8	100	101.2	31.75	80	50	12.0	x	B	1.9	-	E269
	11100-31.75R-13*	11	100	101.2	31.75	80	50	12.0	x	B	1.9	-	
	10125-38.1R-13	10	125	126.1	38.1	80	63	12.0	x	B	2.8	-	
	12160-50.8R-13	12	160	161.1	50.8	100	63	12.0	x	C	4.2	-	
	14200-47.625R-13	14	200	201.1	47.625	130	63	12.0	x	C	6.0	-	

• *: Fine pitch cutter for cast iron
• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

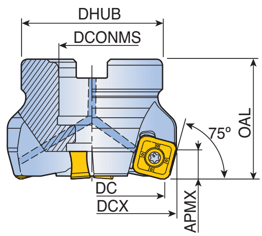
Designation	Screw	Wrench			
TFM90SN	TS 40B100I	T-T15			
TFM88SN	TS 40B100I	T-T15			

Cutting Condition E287-E289
Arbor Style E290-E291

TFM75SN-13

CHASE2QUAD

Face mills



75°

Designation		Z	DC	DCX	DCONMS	DHUB	OAL	APMX	Coolant hole	Arbor style	Kg	Mounting bolt	Insert
			Dimension (mm)										
TFM75SN	450-22R-13	4	50	55.4	22	45	40	9.5	●	A	0.4	LH M10x25	SNM(G)X 1306 EN... SNMX 1306 XTN... E268
	650-22R-13	6	50	55.4	22	45	40	9.5	●	A	0.4	LH M10x25	
	663-22R-13	6	63	68.4	22	47	40	9.5	●	A	0.6	LH M10x25	
	863-22R-13	8	63	68.4	22	47	40	9.5	●	A	0.6	LH M10x25	
	780-27R-13	7	80	85.4	27	70	50	9.5	●	A	1.3	LH M12x30	
	1080-27R-13	10	80	85.4	27	70	50	9.5	●	A	1.3	LH M12x30	
	8100-32R-13	8	100	105.4	32	85	50	9.5	●	A	1.9	LH M16x35	
	12100-32R-13	12	100	105.4	32	85	50	9.5	●	A	2.0	LH M16x35	
	10125-40R-13	10	125	130.3	40	85	63	9.5	●	A	3.2	SH M20x40	
	16125-40R-13	16	125	130.4	40	85	63	9.5	●	A	3.3	SH M20x40	
	12160-40R-13	12	160	165.3	40	110	63	9.5	x	C	4.7	-	
	20160-40R-13	20	160	165.4	40	110	63	9.5	x	C	4.8	-	
	16200-60R-13	16	200	205.3	60	130	63	9.5	x	C	6.4	-	
	22200-60R-13	22	200	205.4	60	130	63	9.5	x	C	6.4	-	
	20250-60R-13	20	250	255.3	60	160	63	9.5	x	C	11.7	-	
TFM75SN	580-25.4R-13B	5	80	85.4	25.4	70	50	9.5	●	A	1.3	LH M12x30	
	1080-25.4R-13	10	80	85.4	25.4	70	50	9.5	●	A	1.5	LH M12x30	
	6100-31.75R-13B	6	100	105.4	31.75	80	50	9.5	x	B	1.9	-	
	8125-38.1R-13B	8	125	130.3	38.1	80	63	9.5	x	B	3.2	-	
	12160-50.8R-13B	12	160	165.3	50.8	100	63	9.5	x	B	4.7	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

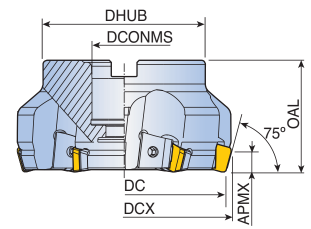
Designation	Screw	Wrench			
TFM75SN	TS 40B100I	T-T15			

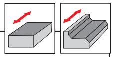
Cutting Condition E287-E289

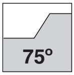
Arbor Style E290-E291

LM75SP-12/15

Face mills







Designation		Teeth	Dimension (mm) DC	DCX	DCONMS	DHUB	OAL	APMX	Arbor style	Kg	Mounting bolt	Insert
LM75SP	**580-25.4 R-12**	5	80	85.4	25.4	70	50	9.5	A	1.5	SH M12x35	SPKN 1203...
	6100-31.75R-12	6	100	105.4	31.75	80	55	9.5	A	2.4	LH M16x35	E272
	8125-38.1R-12	8	125	130.4	38.1	80	63	9.5	B	3.2	-	
	10160-50.8R-12	10	160	165.4	50.8	100	63	9.5	B	5.0	-	
	12200-47.625R-12	12	200	205.4	47.625	130	63	9.5	C	7.4	-	
	16250-47.625R-12	16	250	255.4	47.625	160	63	9.5	C	10.8	-	
	20315-47.625R-12	20	315	320.4	47.625	220	63	9.5	D	17.6	-	
LM75SP	**580-25.4R-15**	5	80	86.97	25.4	70	55	12.5	A	1.5	SH M12x35	SPKN 1504...
	5100-31.75R-15	5	100	106.96	31.75	80	55	12.5	A	2.4	LH M16x35	E272
	8125-38.1R-15	8	125	131.95	38.1	80	63	12.5	B	3.1	-	
	10160-50.8R-15	10	160	166.94	50.8	100	63	12.5	B	5.0	-	
	12200-47.625R-15	12	200	206.94	47.625	130	63	12.5	C	6.9	-	
	16250-47.625R-15	16	250	256.93	47.625	160	63	12.5	C	10.8	-	
	20315-47.625R-15	20	315	321.93	47.625	220	63	12.5	D	17.4	-	

• Metric bore cutter is available upon request

Spare parts

Designation	Carbide shim	Wedge	Shim screw	Wedge screw	Wrench	(2)
LM75SP-12	TSSP 12N	WPA 8	TS 40B100I	TS 80200W	T-W 4	T-T15
LM75SP-15	TSSP 15N	WPA 8	TS 40B100I	TS 80160W(1)	T-W 4	T-T15

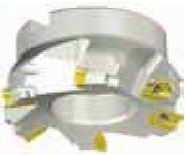
Cutting Condition E287-E289

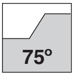
Arbor Style E290-E291

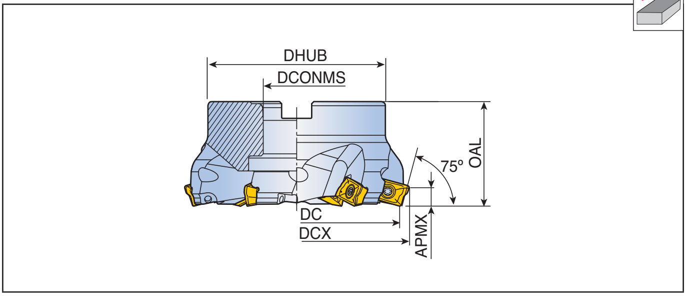
• (1) TS 80160W is for D80 cutter
• The shim screw wrench T-T15(2) shall be ordered separately

TFM75AP-17

Face mills







Designation		Teeth	DC	DCX	DCONMS	DHUB	OAL	APMX	Arbor style	Kg	Mounting bolt	Insert
			Dimension (mm)									
TFM75AP	**580-27R-17**	5	80	87.82	27	58	50	3.9	A	0.8	SH M12x35	APKT 1705 PER-M APKT 1705 PER-EM E239
	6100-32R-17	6	100	107.82	32	85	50	3.9	B	1.3	-	
	7125-40R-17	7	125	132.82	40	85	63	3.9	B	3.5	-	
TFM75AP	**580-25.4R-17**	5	80	87.82	25.4	70	50	3.9	A	0.8	SH M12x35	
	6100-31.75R-17	6	100	107.82	31.75	80	50	3.9	B	1.3	-	
	7125-38.1R-17	7	125	132.82	38.1	80	63	3.9	B	3.5	-	

• Cutter for the other corner of APKT inserts

Spare parts

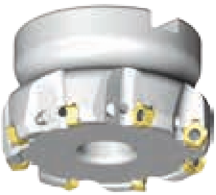
Designation	Screw	Wrench			
TFM75AP-17	TS 40120I/HG	T-T15			

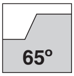
Cutting Condition E287-E289

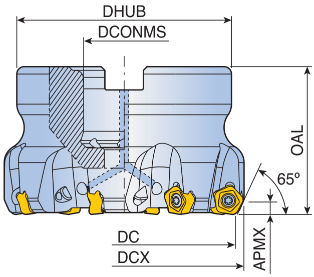
Arbor Style E290-E291

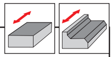
TFM65PT-05/10

Face mills









Designation	Teeth	Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCX	DCONMS	DHUB	OAL	APMX					
TFM65PT 640-16R-05	6	40	43.7	16	38	40	3.3	●	A	0.3	SH M8x25	PTKU 0503...
750-22R-05	7	50	53.7	22	45	40	3.3	●	A	0.4	SH M10x30	E257
863-22R-05	8	63	66.7	22	58	40	3.3	●	A	0.7	SH M10x30	
TFM65PT 680-27R-10	6	80	87.4	27	70	50	6.5	●	A	1.2	LH M12x30	PTKU 1006...
8100-32R-10	8	100	107.4	32	85	50	6.5	●	A	1.9	LH M16x35	E257
9125-40R-10	9	125	132.4	40	85	63	6.5	●	A	3.2	SH M20x40	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

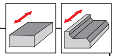
Designation	Screw	Wrench		Wrench handle	
TFM65PT-05	TS 25D060/HG-P	TD7P	-		
TFM65PT-10	TS 50D130/HG-P	-	TBLD T20P-W6	SW6-T	

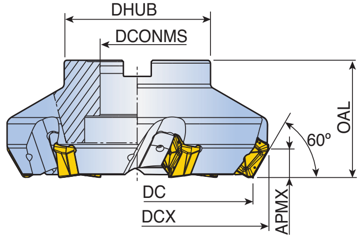
Cutting Condition E287-E289
Arbor Style E290-E291

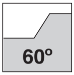
LM60SC-21

LIONMILL

Face mills







Designation		Dimension (mm) DC	DCX	DCONMS	DHUB	OAL	APMX	Arbor style	Kg	Insert
LM60SC 5125-40R-21	5	125	141.2	40	85	63	13.0	B	4.1	SCKN 2107... E264
8125-40R-21	8	125	141.2	40	85	63	13.0	B	4.1	
8160-40R-21	8	160	176.1	40	110	63	13.0	C	6.5	
10160-40R-21	10	160	176.1	40	110	63	13.0	C	6.4	
10200-60R-21	10	200	216.1	60	130	80	13.0	C	11.8	
12200-60R-21	12	200	216.1	60	130	80	13.0	C	11.8	
12250-60R-21	12	250	266	60	160	80	13.0	C	19.2	
14250-60R-21	14	250	266	60	160	80	13.0	C	19.1	
16250-60R-21	16	250	266	60	160	80	13.0	C	19.1	
12315-60R-21	12	315	331	60	220	80	13.0	D	25.0	
16315-60R-21	16	315	331	60	220	80	13.0	D	25.0	
18315-60R-21	18	315	331	60	220	80	13.0	D	25.0	
LM60SC 5125-38.1R-21	5	125	141.2	38.1	80	63	13.0	B	4.1	
8160-50.8R-21	8	160	176.1	50.8	100	63	13.0	B	6.5	
10160-50.8R-21	10	160	176.1	50.8	100	63	13.0	B	6.4	
10200-47.625R-21	10	200	216.1	47.625	130	80	13.0	C	11.8	
12200-47.625R-21	12	200	216.1	47.625	130	80	13.0	C	11.8	
12250-47.625R-21	12	250	266	47.625	160	80	13.0	C	19.2	
14250-47.625R-21	14	250	266	47.625	160	80	13.0	C	19.1	
16250-47.625R-21	16	250	266	47.625	160	80	13.0	C	19.1	
12315-47.625R-21	12	315	331	47.625	220	80	13.0	D	25.0	
16315-47.625R-21	16	315	331	47.625	220	80	13.0	D	25.0	
18315-47.625R-21	18	315	331	47.625	220	80	13.0	D	25.0	

Spare parts

Designation	Shim	Shim screw	Wedge	Wedge screw	Wrench	Wrench (1)
LM60SC-21	TSSC 21R-ST	TS 50C130I/HG	WSC 8R-21	TS 80200W	T-W 4	T-T20

Cutting Condition E287-E289

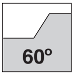
Arbor Style E290-E291

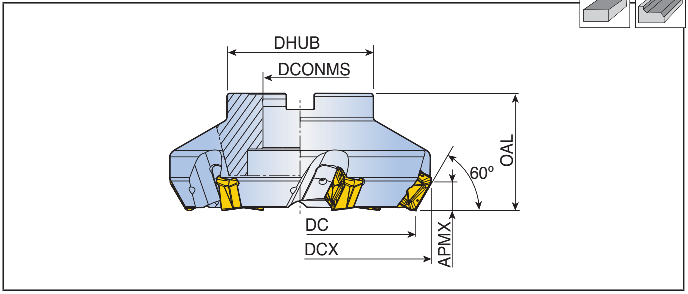
- The shim screw wrench(1) shall be ordered separately

LM60SC-27

LIONMILL

Face mills





Designation		Dimension (mm)						Arbor style	Kg	Insert
		DC	DCX	DCONMS	DHUB	OAL	APMX			
LM60SC 5125-40R-27	5	125	146	40	85	63	18.0	B	4.6	SCKN 2708...
6160-40R-27	6	160	181	40	110	80	18.0	C	8.7	E264
8160-40R-27	8	160	181	40	110	80	18.0	C	8.4	
8200-60R-27	8	200	220.9	60	130	80	18.0	C	12.4	
10200-60R-27	10	200	220.9	60	130	80	18.0	C	12.3	
10250-60R-27	10	250	270.8	60	160	80	18.0	C	19.9	
12250-60R-27	12	250	270.8	60	160	80	18.0	C	19.8	
12315-60R-27	12	315	335.8	60	220	80	18.0	D	26.0	
15315-60R-27	15	315	335.8	60	220	80	18.0	D	25.9	
15400-60R-27*	15	400	420.9	60	270	80	18.0	D	44.0	
19400-60R-27*	19	400	420.9	60	270	80	18.0	D	43.0	
24500-60R-27*	24	500	520.9	60	270	80	18.0	D	64.0	
LM60SC 5125-38.1R-27	5	125	146	38.1	80	63	18.0	B	4.6	
6160-50.8R-27	6	160	181	50.8	100	80	18.0	B	8.7	
8160-50.8R-27	8	160	181	50.8	100	80	18.0	B	8.4	
8200-47.625R-27	8	200	220.9	47.625	130	80	18.0	C	12.4	
10200-47.625R-27	10	200	220.9	47.625	130	80	18.0	C	12.3	
10250-47.625R-27	10	250	270.8	47.625	160	80	18.0	C	19.9	
12250-47.625R-27	12	250	270.8	47.625	160	80	18.0	C	19.8	
12315-47.625R-27	12	315	335.8	47.625	220	80	18.0	D	26.0	
15315-47.625R-27	15	315	335.8	47.625	220	80	18.0	D	25.9	

- *: Available upon request

Spare parts

Designation	Shim	Shim screw	Wedge	Wedge screw	Wrench		Wrench handle
						(1)	
LM60SC-27	TSSC 27R-ST	TS 60A130I	WSC 8R	TS 80200W	T-W 4	BLD T25	M7+SW6-T1

Cutting Condition E287-E289

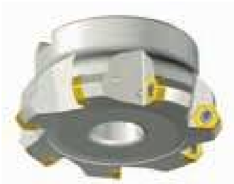
Arbor Style E290-E291

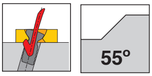
- The shim screw wrench(1) shall be ordered separately

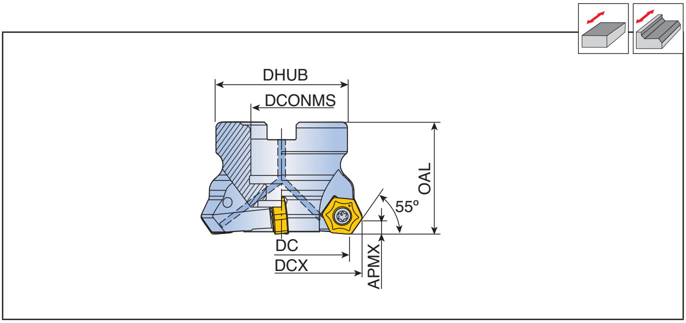
TaeguTec

TFM55AHNS-05

Face mills



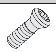




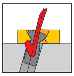
Designation		Dimension (mm) DC	DCX	DCONMS	DHUB	OAL	APMX	Coolant hole	Arbor style	Kg	Mounting bolt	Insert
TFM55AHNS 450-22R-05B	4	50	58.2	22	45	40	5.0	●	A	0.4	SH M10x30	HNC(M)X 05... E248
650-22R-05	6	50	58.2	22	45	40	5.0	●	A	0.4	SH M10x30	
563-22R-05B	5	63	71.2	22	47	40	5.0	●	A	0.6	SH M10x30	
863-22R-05	8	63	71.2	22	47	40	5.0	●	A	0.5	SH M10x30	
680-27R-05B	6	80	88.2	27	70	50	5.0	●	A	1.3	SH M12x35	
880-27R-05	8	80	88.2	27	70	50	5.0	●	A	1.2	SH M12x35	
1080-27R-05	10	80	88.2	27	70	50	5.0	●	A	1.2	SH M12x35	
7100-32R-05B	7	100	108.2	32	85	50	5.0	●	A	2.0	SH M16x35	
10100-32R-05	10	100	108.2	32	85	50	5.0	●	A	2.0	SH M16x35	
12100-32R-05	12	100	108.2	32	85	50	5.0	●	A	2.0	SH M16x35	
10125-40R-05B	10	125	133.2	40	85	63	5.0	●	A	3.2	SH M20x40	
12125-40R-05	12	125	133.2	40	85	63	5.0	●	A	3.4	SH M20x40	
16125-40R-05	16	125	133.2	40	85	63	5.0	●	A	3.2	SH M20x40	
12160 -40R-05B	12	160	168.2	40	110	63	5.0	x	C	4.7	-	
TFM55AHNS 680-25.4R-05B	6	80	88.2	25.4	70	50	5.0	●	A	1.3	SH M12x35	
7100-31.75R-05B	7	100	108.2	31.75	80	50	5.0	x	B	2.0	-	
10125-38.1R-05B	10	125	133.2	38.1	80	63	5.0	x	B	3.2	-	
12160 -50.8R-05B	12	160	168.2	50.8	100	63	5.0	x	B	4.7	-	

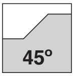
• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

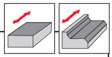
Spare parts

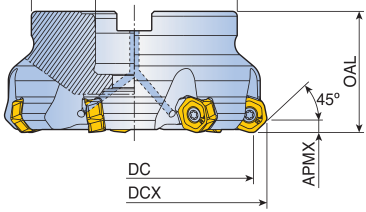
Designation	Screw	Wrench			
					
TFM55AHNS	TS 40B100I	T-T15			

Face mills



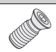
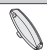






Designation	Teeth	Dimension (mm) DC	DCX	DCONMS	DHUB	OAL	APMX	Coolant hole	Arbor style	Kg	Mounting bolt	Insert
12D-TF45-440-16R-06	4	40	50.8	16	38	40	3.0	●	A	0.3	SH M8x25	HXK(H)U 0605... E250
450-22R-06	4	50	60.8	22	45	40	3.0	●	A	0.5	LH M10x25	
650-22R-06	6	50	60.8	22	45	40	3.0	●	A	0.5	LH M10x25	
563-22R-06	5	63	73.8	22	47	40	3.0	●	A	0.7	LH M10x25	
763-22R-06	7	63	73.8	22	47	40	3.0	●	A	0.7	LH M10x25	
680-27R-06	6	80	90.8	27	70	50	3.0	●	A	1.5	SH M12x35	
1080-27R-06	10	80	90.8	27	70	50	3.0	●	A	1.5	SH M12x35	
7100-32R-06	7	100	110.8	32	85	50	3.0	●	A	2.2	SH M16x35	
12100-32R-06	12	100	110.8	32	85	50	3.0	●	A	2.2	SH M16x35	
10125-40R-06	10	125	135.8	40	85	63	3.0	●	A	3.6	SH M20x40	
16125-40R-06	16	125	135.8	40	85	63	3.0	●	A	3.6	SH M20x40	
12160-40R-06	12	160	170.8	40	110	63	3.0	x	C	4.9	-	
20160-40R-06	20	160	170.8	40	110	63	3.0	x	C	4.9	-	

Spare parts

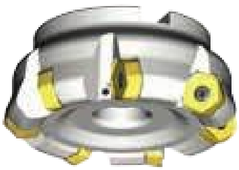
Designation	Screw	Wrench	Wrench handle		
					
12D-TF45-06	TS 40B100I	TBLD T15-W6	SW6-T		

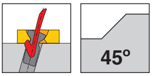

Cutting Condition E287-E289

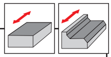

Arbor Style E290-E291

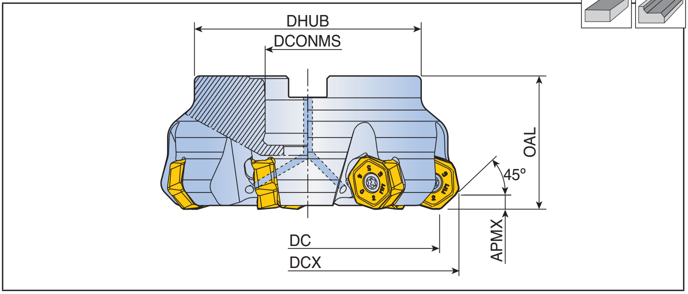
12D-TF45-10

Face mills









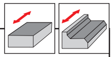
Designation	Z	Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCX	DCONMS	DHUB	OAL	APMX					
12D-TF45-563-22R-10	5	63	77.5	22	47	50	5.0	●	A	0.9	SH M10x30	HXK(H)U 1007...
763-22R-10	7	63	77.5	22	47	50	5.0	●	A	0.9	SH M10x30	
680-27R-10	6	80	94.5	27	70	50	5.0	●	A	1.6	SH M12x35	E250
980-27R-10	9	80	94.5	27	70	50	5.0	●	A	1.6	SH M12x35	
7100-32R-10	7	100	114.5	32	85	50	5.0	●	A	2.4	LH M16x35	
11100-32R-10	11	100	114.5	32	85	50	5.0	●	A	2.4	LH M16x35	
8125-40R-10	8	125	139.5	40	85	63	5.0	●	A	4.1	SH M20x40	
14125-40R-10	14	125	139.5	40	85	63	5.0	●	A	4.0	SH M20x40	
10160-40R-10	10	160	174.5	40	110	63	5.0	x	C	5.6	-	
16160-40R-10	16	160	174.5	40	110	63	5.0	x	C	5.6	-	
14200-60R-10	14	200	214.5	60	130	63	5.0	x	C	7.9	-	
21200-60R-10	21	200	214.5	60	130	63	5.0	x	C	7.9	-	
16250-60R-10	16	250	264.5	60	160	63	5.0	x	C	12.4	-	
26250-60R-10	26	250	264.5	60	160	63	5.0	x	C	12.4	-	

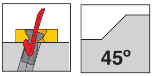
Spare parts

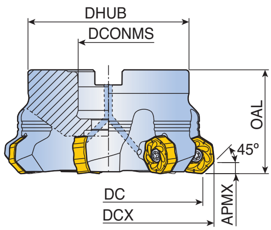
Designation	Screw	Wrench	Wrench handle		
12D-TF45-10	TS 50C130I/HG	TBLD T20-W6	SW6-T		

14D-F45XN-06

Face mills







Designation		Teeth	Dimension (mm) DC	DCX	DCONMS	DHUB	OAL	APMX	Coolant hole	Arbor style	Kg	Mounting bolt	Insert
14D-F45XN	**550-22R-06**	5	50	59.1	22	45	40	3.5	●	A	0.4	LH M10x25	XNM(H)U 0605... E281
	563-22R-06	5	63	72.1	22	47	50	3.5	●	A	0.8	SH M10x25	
	763-22R-06	7	63	72.1	22	47	50	3.5	●	A	0.8	SH M10x25	
	680-27R-06	6	80	89.1	27	70	50	3.5	●	A	1.4	SH M12x35	
	980-27R-06	9	80	89.1	27	70	50	3.5	●	A	1.4	SH M12x35	
	7100-32R-06	7	100	109.1	32	85	50	3.5	●	A	2.1	SH M16x35	
	11100-32R-06	11	100	109.1	32	85	50	3.5	●	A	2.1	SH M16x35	
	10125-40R-06	10	125	134.1	40	85	63	3.5	●	A	3.6	SH M20x40	
	14125-40R-06	14	125	134.1	40	85	63	3.5	●	A	3.6	SH M20x40	
	12160-40R-06	12	160	169.1	40	110	63	3.5	x	C	4.7	-	
	16160-40R-06	16	160	169.1	40	110	63	3.5	x	C	4.9	-	
	18160-40R-06	18	160	169.1	40	110	63	3.5	x	C	5.0	-	
14D-F45XN	**763-25.4R-06**	7	63	72.1	25.4	47	50	3.5	●	A	0.8	SH M12x30	
	980-25.4R-06	9	80	89.1	25.4	70	50	3.5	●	A	1.4	SH M12x35	
	11100-31.75R-06	11	100	109.1	31.75	80	50	3.5	●	A	1.9	LH M16x35	
	14125-38.1R-06	14	125	134.1	38.1	80	63	3.5	x	B	3.9	-	
	16160-50.8R-06	16	160	169.1	50.8	100	63	3.5	x	B	5.0	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

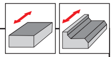
Designation	Screw	Wrench			
14D-F45XN-06	TS 40B100I	T-T15			

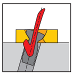
Cutting Condition E287-E289

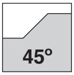
Arbor Style E290-E291

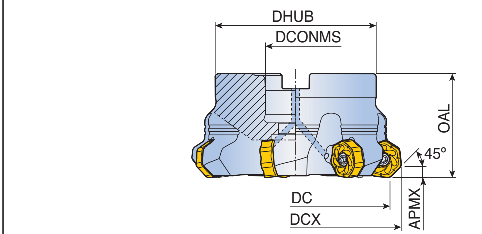
14D-F45XN-09

Face mills









Designation		Teeth	Dimension (mm) DC	DCX	DCONMS	DHUB	OAL	APMX	Coolant hole	Arbor style	Kg	Mounting bolt	Insert
14D-F45XN	563-22R-09	5	63	74.9	22	47	50	5.0	●	A	0.9	SH M10x25	XNM(H)U 0906... E282
	663-22R-09	6	63	74.9	22	47	50	5.0	●	A	0.9	SH M10x25	
	680-27R-09	6	80	91.9	27	70	50	5.0	●	A	1.4	SH M12x35	
	780-27R-09	7	80	91.9	27	70	50	5.0	●	A	1.5	SH M12x35	
	7100-32R-09	7	100	112	32	85	55	5.0	●	A	2.4	SH M16x35	
	9100-32R-09	9	100	112	32	85	55	5.0	●	A	2.5	SH M16x35	
	8125-40R-09	8	125	137	40	85	63	5.0	●	A	3.5	SH M20x40	
	10125-40R-09	10	125	137	40	85	63	5.0	●	A	3.6	SH M20x40	
	12125-40R-09	12	125	137	40	85	63	5.0	●	A	3.4	SH M20x40	
	10160-40R-09	10	160	172	40	110	63	5.0	x	C	4.8	-	
	12160-40R-09	12	160	172	40	110	63	5.0	x	C	4.8	-	
	14160-40R-09	14	160	172	40	110	63	5.0	x	C	4.8	-	
	12200-60R-09	12	200	212	60	130	63	5.0	x	C	6.8	-	
	16200-60R-09	16	200	212	60	130	63	5.0	x	C	6.9	-	
	16250-60R-09	16	250	262	60	160	63	5.0	x	C	11.5	-	
	20250-60R-09	20	250	262	60	160	63	5.0	x	C	11.5	-	
14D-F45XN	680-25.4R-09	6	80	91.9	25.4	70	50	5.0	●	A	1.4	SH M12x35	
	7100-31.75R-09	7	100	112	31.75	80	55	5.0	●	A	2.4	SH M16x35	
	8125-38.1R-09	8	125	137	38.1	80	63	5.0	x	B	3.5	-	
	10160-50.8R-09	10	160	172	50.8	100	63	5.0	x	B	4.8	-	
	12200-47.625R-09	12	200	212	47.625	130	63	5.0	x	C	6.8	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

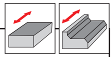
Spare parts

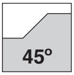
Designation	Screw	Wrench			
14D-F45XN-09	TS 50C130I/HG	T-T20			

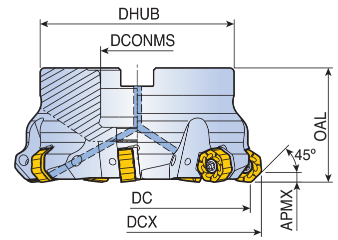
14D-F45XNH-06/09

CHASE2HEPTA

Shim type face mills







Designation		Number of inserts	DC	DCX	DCONMS	DHUB	OAL	APMX	Coolant hole	Arbor style	Kg	Mounting bolt	Insert
			Dimension (mm)										
14D-F45XNH	**763-22R-06**	7	63	72.2	22	47	40	3.5	●	A	0.7	SH M10x25	XNM(H)U 0605...
	780-27R-06	7	80	89.2	27	70	50	3.5	●	A	1.5	SH M12x35	E281
	880-27R-06	8	80	89.2	27	70	50	3.5	●	A	1.5	SH M12x35	
	7100-32R-06	7	100	109.2	32	85	50	3.5	●	A	2.2	SH M16x35	
	8100-32R-06	8	100	109.2	32	85	50	3.5	●	A	2.2	SH M16x35	
	11125-40R-06	11	125	134.2	40	85	63	3.5	●	A	3.5	SH M20x40	
14D-F45XNH	**563-22R-09**	5	63	75.1	22	47	40	5.0	●	A	0.6	SH M10x25	XNM(H)U 0906...
	680-27R-09	6	80	92.1	27	70	50	5.0	●	A	1.5	SH M12x35	E282
	7100-32R-09	7	100	112.1	32	85	50	5.0	●	A	2.2	SH M16x35	
	9125-40R-09	9	125	137.0	40	85	63	5.0	●	A	3.6	SH M20x40	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Shim	Shim screw	Wrench	Wrench handle
14D-F45XNH-06	TS 35C110I	TSXN 06N	TS 5035062S-B	TBLD T15-W6	SW6-T
14D-F45XNH-09	TS 50C130I/HG	TSXN 09N	TS 8050088S	TBLD T20-W6	SW6-T

Cutting Condition E287-E289

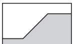
Arbor Style E290-E291

TaeguTec

14D-F45XNW-09/14D-F45XNW-09R-QC

CHASE2HEPTA

Face mill



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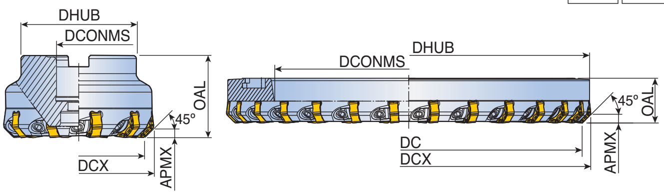


Fig.1 Fig.2

Designation		Dimension (mm)						Fig.	Arbor style	Kg	Mounting bolt	Insert
		DC	DCX	DCONMS	DHUB	OAL	APMX					
14D-F45XNW 1080-27R-09	10	80	91.9	27	70	50	5.0	1	A	1.5	SH M12x35	XNHU 0906... E282
14100-32R-09	14	100	112	32	85	55	5.0	1	A	2.9	SH M16x35	
18125-40R-09	18	125	137	40	85	63	5.0	1	B	3.8	-	
18160-40R-09	18	160	172	40	110	63	5.0	1	C	5.6	-	
22160-40R-09	22	160	172	40	110	63	5.0	1	C	5.6	-	
28200-60R-09	28	200	212	60	130	63	5.0	1	C	7.9	-	
36250-60R-09	36	250	262	60	160	63	5.0	1	C	12.7	-	
44315-60R-09	44	315	327	60	220	63	5.0	1	D	19.9	-	

Designation		Dimension (mm)						Fig.	Kg	Adapter	Insert
		DC	DCX	DCONMS	DHUB	OAL	APMX				
14D-F45XNW-28250-09R-QC	28	250	262	190.37	258.9	32	5.0	2	4.7	TQCA D250	XNHU 0906... E282
36315-09R-QC	36	315	327	230.33	313	38	5.0	2	9.2	TQCA D315	
42355-09R-QC	42	355	367	270.33	353	38	5.0	2	10.6	TQCA D355	
46400-09R-QC	46	400	412	315.33	398	38	5.0	2	12.1	TQCA D400	

• Recommend to very stable machining condition at cast iron & steel

Spare parts

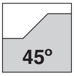
Designation	Wedge	Wedge screw	Wrench		
14D-F45XNW-09	WFZ 8H	WS 8	T-W 4		
14D-F45XNW-09R-QC	WFZ 8H	WS 8	T-W 4		

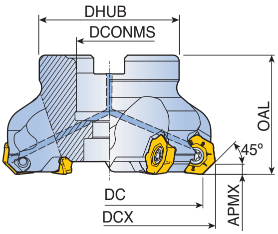
Cutting Condition E287-E289 | Arbor Style E290-E291 | Technical Data E292-E293

7S-F45-06

CHASEHEPTA

Face mills





Designation		Teeth	Dimension (mm) DC	DCX	DCONMS	DHUB	OAL	APMX	Coolant hole	Arbor style	Kg	Mounting bolt	Insert
7S-F45	**332-16R-06**	3	32	40.4	16	38	40	3.2	●	E	0.2	KTB 32B	7EMT 0604... E234
	440-16R-06	4	40	48.5	16	38	40	3.2	●	A	0.3	SH M8x30	
	550-22R-06	5	50	58.5	22	45	40	3.2	●	A	0.4	LH M10x25	
	663-22R-06	6	63	71.5	22	47	40	3.2	●	A	0.5	LH M10x25	
	780-27R-06	7	80	88.5	27	70	50	3.2	●	A	1.3	LH M12x30	
	8100-32R-06	8	100	108.5	32	85	50	3.2	●	A	1.9	LH M16x35	
	9125-40R-06	9	125	133.5	40	85	63	3.2	●	A	3.3	SH M20x40	
7S-F45	**780-25.4R-06**	7	80	88.5	25.4	70	50	3.2	●	A	1.3	LH M12x30	
	8100-31.75R-06	8	100	108.5	31.75	80	50	3.2	●	A	1.8	LH M16x35	
	9125-38.1R-06	9	125	133.5	38.1	80	63	3.2	x	B	2.8	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M8x1.25x30-C)

Spare parts

Designation	Screw	Wrench			
7S-F45-06	TS 40093I/HG	T-T15			

Cutting Condition E287-E289

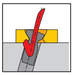
Arbor Style E290-E291

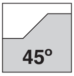
Ramping Data E348

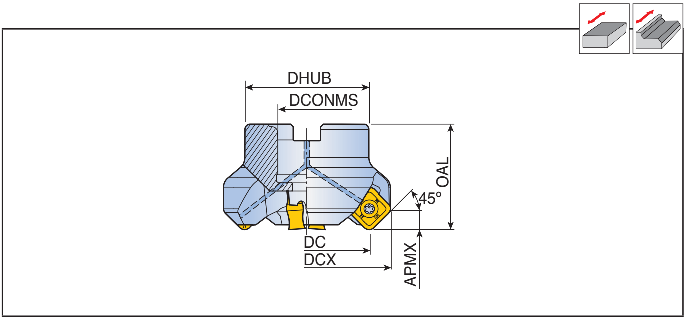
TaeguTec Member IMC Group

CHASE2QUAD

Face mills





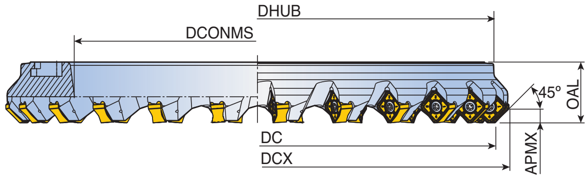


Designation		Z	Dimension (mm) DC	DCX	DCONMS	DHUB	OAL	APMX	Coolant hole	Arbor style	Kg	Mounting bolt	Insert
TFM45SN	440-16R-13	4	40	54.7	16	38	40	7.0	●	A	0.3	LH M10x25	SNM(G)X 1306 AN... SNMX 1306 XTN E268
	450-22R-13	4	50	64.7	22	45	40	7.0	●	A	0.5	LH M10x25	
	650-22R-13	6	50	64.7	22	45	40	7.0	●	A	0.5	LH M10x25	
	663-22R-13	6	63	77.7	22	47	40	7.0	●	A	0.7	LH M10x25	
	863-22R-13	8	63	77.7	22	47	40	7.0	●	A	0.7	LH M10x25	
	480-27R-13B	4	80	94.8	27	70	50	7.0	●	A	1.4	LH M12x30	
	780-27R-13	7	80	94.8	27	70	50	7.0	●	A	1.5	LH M12x30	
	1080-27R-13	10	80	94.8	27	70	50	7.0	●	A	1.5	LH M12x30	
	5100-32R-13B	5	100	114.8	32	85	50	7.0	●	A	2.1	LH M16x35	
	8100-32R-13	8	100	114.8	32	85	50	7.0	●	A	2.2	LH M16x35	
	12100-32R-13	12	100	114.8	32	85	50	7.0	●	A	2.2	LH M16x35	
	6125-40R-13B	6	125	139.8	40	85	63	7.0	●	A	3.8	SH M20x40	
	10125-40R-13	10	125	139.8	40	85	63	7.0	●	A	3.8	SH M20x40	
	16125-40R-13	16	125	139.6	40	85	63	7.0	●	A	3.8	SH M20x40	
	8160-40R-13B	8	160	174.8	40	110	63	7.0	x	C	4.9	-	
	12160-40R-13	12	160	174.8	40	110	63	7.0	x	C	4.9	-	
	20160-40R-13	20	160	174.5	40	110	63	7.0	x	C	5.0	-	
	10200-60R-13B	10	200	214.8	60	130	63	7.0	x	C	6.5	-	
	18200-60R-13	18	200	214.8	60	130	63	7.0	x	C	6.6	-	
	26200-60R-13	26	200	214.3	60	130	63	7.0	x	C	7.0	-	
	20250-60R-13	20	250	264.8	60	160	63	7.0	x	C	12.9	-	
TFM45SN	480-25.4R-13B	4	80	94.8	25.4	70	50	7.0	●	A	1.4	LH M12x30	
	5100-31.75R-13B	5	100	114.8	31.75	80	50	7.0	x	B	2.1	-	
	6125-38.1R-13B	6	125	139.8	38.1	80	63	7.0	x	B	3.8	-	
	10125-38.1R-13	10	125	139.8	38.1	80	63	7.0	x	B	3.4	-	
	8160-50.8R-13B	8	160	174.8	50.8	100	63	7.0	x	B	4.9	-	
	12160-50.8R-13	12	160	174.8	50.8	100	63	7.0	x	B	5.0	-	
	10200-47.625R-13B	10	200	214.8	47.625	130	63	7.0	x	C	6.5	-	
	12250-47.625R-13B	12	250	264.8	47.625	160	63	7.0	x	C	12.9	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

TFM45SN-13-QC

New quick change type face mills



45°

Designation		Dimension (mm)						Kg	Adaptor	Insert
		DC	DCX	DCONMS	DHUB	OAL	APMX			
TFM45SN 12250-13-QC	12	250	264.8	190.37	248	32	7.0	3.5	TQCA D250	SNM(G)X 1306 AN... SNMX 1306 XTN E268
24250-13-QC	24	250	264.7	190.37	248	32	7.0	3.7	TQCA D250	
14315-13-QC	14	315	329.8	230.33	313	38	7.0	8.1	TQCA D315	
30315-13-QC	30	315	329.7	230.33	313	38	7.0	8.2	TQCA D315	
16355-13-QC	16	355	369.8	270.33	353	38	7.0	9.3	TQCA D355	
34355-13-QC	34	355	369.7	270.33	353	38	7.0	9.4	TQCA D355	
18400-13-QC	18	400	414.8	315.33	398	38	7.0	10.6	TQCA D400	
38400-13-QC	38	400	414.7	315.33	398	38	7.0	10.7	TQCA D400	

• Recommend to very stable machining condition at cast iron & steel

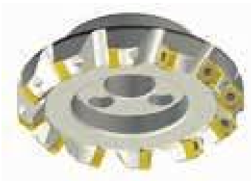
Spare parts

Designation	Screw	Wrench			
TFM45SN-13	TS 40B100I	T-T15			
TFM45SN-13-QC	TS 40B100I	T-T15			

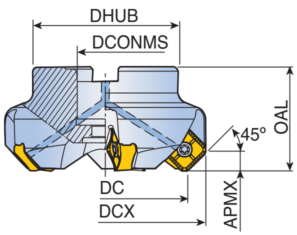
Cutting Condition E287-E289
Technical Data E292-E293

TFM45SNS-16

Face mills



45°



Designation		Teeth	DC	DCX	DCONMS	DHUB	OAL	APMX	Coolant hole	Arbor style	Kg	Mounting bolt	Insert
			Dimension (mm)										
TFM45SNS	463-22R-16	4	63	81.1	22	47	50	8.8	●	A	1.0	LH M10x25	SNMX 1607... SNHX 1606... E270
	580-27R-16	5	80	98.2	27	70	50	8.8	●	A	1.5	LH M12x30	
	7100-32R-16	7	100	118.2	32	85	50	8.8	●	A	2.3	LH M16x35	
	8125-40R-16	8	125	143.2	40	85	63	8.8	●	A	4.0	SH M20x40	
	10125-40R-16	10	125	143.2	40	85	63	8.8	●	A	4.0	SH M20x40	
	10160-40R-16	10	160	178.2	40	110	63	8.8	x	C	5.4	-	
	12160-40R-16	12	160	178.2	40	110	63	8.8	x	C	5.4	-	
	12200-60R-16	12	200	218.2	60	130	63	8.8	x	C	7.5	-	
	14250-60R-16	14	250	268.2	60	160	63	8.8	x	C	13	-	
TFM45SNS	580-25.4R-16	5	80	98.2	25.4	70	50	8.8	●	A	1.5	LH M12x30	
	7100-31.75R-16	7	100	118.2	31.75	80	50	8.8	x	B	2.3	-	
	8125-38.1R-16	8	125	143.2	38.1	80	63	8.8	x	B	4.0	-	
	10160-50.8R-16	10	160	178.2	50.8	100	63	8.8	x	B	5.4	-	
	12200-47.625R-16	12	200	218.2	47.625	130	63	8.8	x	C	7.5	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

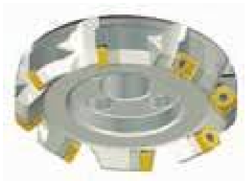
Designation	Screw	Wrench			
TFM45SNS-16	TS 45120I	T-T20			

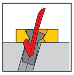
Cutting Condition E287-E289
Arbor Style E290-E291

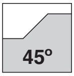
TFM45SNS-16B-CA

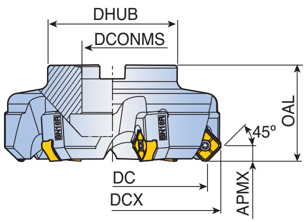
CHASE2QUAD

Face mills









Designation		Teeth	Dimension (mm)						Arbor style	Kg	Insert
			DC	DCX	DCONMS	DHUB	OAL	APMX			
TFM45SNS	**6125-40R-16B-CA**	6	125	143.2	40	85	63	8.8	B	4.0	SNMX 1607...
	8160-40R-16B-CA	8	160	178.2	40	110	63	8.8	C	5.9	SNHX 1606...
	10200-60R-16B-CA	10	200	218.2	60	130	63	8.8	C	8.1	E270
	14250-60R-16-CA	14	250	268.2	60	160	63	8.8	C	13.3	
	14315-60R-16B-CA	14	315	333.2	60	220	80	8.8	D	24.0	

Spare parts

Designation	Screw	Cartridge	Cartridge screw	Wrench	
TFM45SNS-16B-CA	TS 45120I	TCT23-SN16R	TS 60170I	T-T20	

Cutting Condition E287-E289

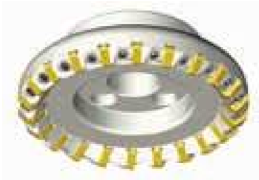
Arbor Style E290-E291

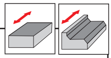
TaeguTec Member IMC Group

TFM45SNW-16/TQ45SNW-16

CHASE2QUAD

Face mills





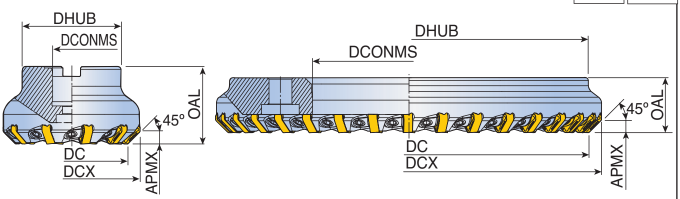
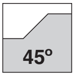


Fig.1 Fig.2



Designation		Teeth	DC	DCX	DCONMS	DHUB	OAL	APMX	Fig.	Arbor style	Kg	Mounting bolt	Insert
			Dimension (mm)										
TFM45SNW	1080-27R-16	10	80	98.2	27	70	55	8.8	1	A	1.9	LH M12x30	SNHX 1606... E270
	14100-32R-16	14	100	118.2	32	85	63	8.8	1	A	3.2	SH M16x35	
	18125-40R-16	18	125	143.2	40	85	63	8.8	1	B	3.9	-	
	22160-40R-16	22	160	178.2	40	110	63	8.8	1	C	5.7	-	
	26200-60R-16	26	200	218.2	60	130	63	8.8	1	C	7.8	-	
	32250-60R-16	32	250	268.2	60	160	63	8.8	1	C	13.5	-	

Designation		Teeth	DC	DCX	DCONMS	DHUB	OAL	APMX	Fig.	Kg	Adapter	Insert
			Dimension (mm)									
TQ45SNW	26200R-16	26	200	218.2	63.5	200	38	8.8	2	6.3	QA 08 K/M	SNHX 1606... E270
	34250R-16	34	250	268.2	133.35	248	38	8.8	2	7.9	QA 10 K/M	
	44315R-16	44	315	333.2	146.05	313	38	8.8	2	13.2	QA 12 K/M	
	50355R-16	50	355	373.2	215.90	353	38	8.8	2	13.0	QA 14 K/M	

• Recommend to very stable machining condition at cast iron & steel

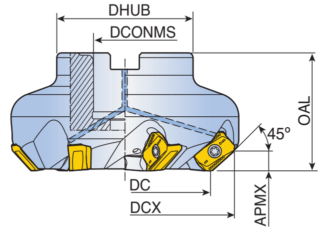
Spare parts

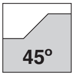
Designation	Wedge	Wedge screw	Wrench		
TFM45SNW	WFZ 8H-SN	WS 8	T-W 4		
TQ45SNW	WFZ 8H-SN	WS 8	T-W 4		

Cutting Condition E287-E289
Arbor Style E290-E291
Technical Data E294

TFM45AN-16

Face mills

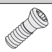
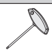




Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCX	DCONMS	DHUB	OAL	APMX					
TFM45AN 450-22R-16	4	50	67.8	22	45	40	8.4	●	A	0.6	LH M10x25	ANHX 1607 ANR-M
663-22R-16	6	63	80.6	22	47	40	8.4	●	A	0.9	LH M10x25	E234
780-27R-16	7	80	97.5	27	58	50	8.4	●	A	1.6	SH M12x35	
8100-32R-16	8	100	117.5	32	85	50	8.4	●	A	2.5	LH M16x35	
9125-40R-16	9	125	142.6	40	85	63	8.4	●	A	4.3	SH M20x40	
10160-40R-16	10	160	177.7	40	110	63	8.4	x	C	5.8	-	

- 90° Inserts can not be mounted
- Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench			
					
TFM45AN	TS 40120I	T-T15			

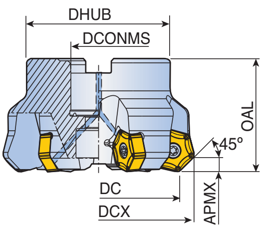
Cutting Condition E287-E289

Arbor Style E290-E291

TFM45HNS-10

Face mills

45°



Designation		No. of inserts	DC	DCX	DCONMS	DHUB	OAL	APMX	Coolant hole	Arbor style	Kg	Mounting bolt	Insert
			Dimension (mm)										
TFM45HNS	563-22R-10	5	63	77	22	47	50	6.1	●	A	0.8	SH M10x25	HNHX 1006... E249
	663-22R-10F	6	63	77	22	47	50	6.1	●	A	0.9	SH M10x25	
	680-27R-10	6	80	94	27	70	55	6.1	●	A	1.6	SH M12x35	
	780-27R-10F	7	80	94	27	70	55	6.1	●	A	1.6	SH M12x35	
	7100-32R-10	7	100	114	32	85	63	6.1	●	A	2.7	SH M16x35	
	9100-32R-10F	9	100	114	32	85	63	6.1	●	A	2.8	SH M16x35	
	8125-40R-10	8	125	139	40	85	63	6.1	x	B	3.4	-	
	10125-40R-10	10	125	139	40	85	63	6.1	x	B	3.4	-	
	12125-40R-10F	12	125	139	40	85	63	6.1	x	B	3.4	-	
	10160-40R-10	10	160	174	40	110	63	6.1	x	C	4.8	-	
	12160-40R-10	12	160	174	40	110	63	6.1	x	C	4.8	-	
	14160-40R-10F	14	160	174	40	110	63	6.1	x	C	4.9	-	
	12200-60R-10	12	200	214	60	130	63	6.1	x	C	6.9	-	
	16200-60R-10F	16	200	214	60	130	63	6.1	x	C	7.0	-	
	16250-60R-10	16	250	264	60	160	63	6.1	x	C	11.8	-	
	20250-60R-10F	20	250	264	60	160	63	6.1	x	C	12.0	-	
TFM45HNS	680-25.4R-10	6	80	94	25.4	70	55	6.1	●	A	1.6	SH M12x35	
	7100-31.75R-10	7	100	114	31.75	80	63	6.1	x	B	2.7	-	
	9100-31.75R-10F	9	100	114	31.75	80	63	6.1	x	B	2.8	-	
	8125-38.1R-10	8	125	139	38.1	80	63	6.1	x	B	3.4	-	
	10125-38.1R-10	10	125	139	38.1	80	63	6.1	x	B	3.4	-	
	10160-50.8R-10	10	160	174	50.8	100	63	6.1	x	B	4.8	-	
	12160-50.8R-10	12	160	174	50.8	100	63	6.1	x	B	4.8	-	
	12200-47.625R-10	12	200	214	47.625	130	63	6.1	x	C	6.9	-	
	16250-47.625R-10	16	250	264	47.625	160	63	6.1	x	C	11.8	-	

Spare parts

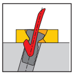
Designation	Screw	Wrench			
TFM45HNS	TS 50C130I/HG	T-T20			

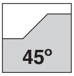
Cutting Condition E287-E289

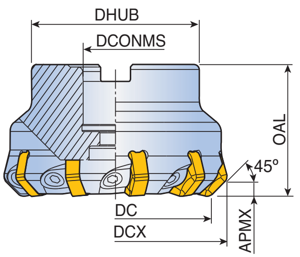
Arbor Style E290-E291

TFM45HN-10

Face mills







Designation		Dimension (mm) DC	DCX	DCONMS	DHUB	OAL	APMX	Arbor style	Kg	Mounting bolt	Insert
TFM45HN 1080-27R-10	10	80	94	27	70	55	6.1	A	1.9	SH M12x35	HNHX 1006...
14100-32R-10	14	100	114	32	85	63	6.1	A	3.3	SH M16x35	E249
18125-40R-10	18	125	139	40	85	63	6.1	B	3.9	-	
22160-40R-10	22	160	174	40	110	63	6.1	C	5.6	-	
28200-60R-10	28	200	214	60	130	63	6.1	C	7.9	-	
36250-60R-10	36	250	264	60	160	63	6.1	C	13.1	-	
44315-60R-10	44	315	329	60	220	63	6.1	D	21.2	-	

Spare parts

Designation	Wedge	Wedge screw	Wrench		
TFM45HN	WFZ 8H	WS 8	T-W 4		

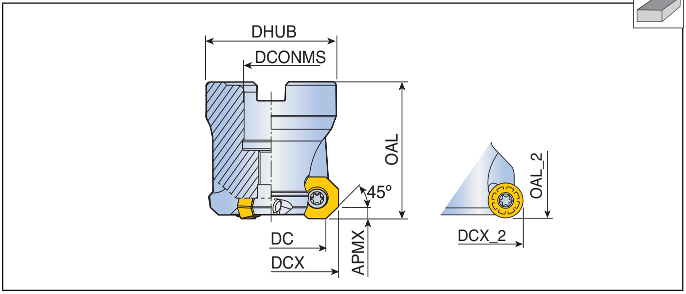
Cutting Condition E287-E289

Arbor Style E290-E291

TFM430FS-05

Face mills

43°



Designation		Teeth	DC	DCX	DCX_2	DCONMS	DHUB	OAL	OAL_2	APMX	Arbor style	Kg	Mounting bolt	Insert
TFM430FS	**332-16R-05**	3	32	39.6	40.8	16	30	40	40.6	3.5	E	0.3	KTB32B	OFCW 05T3..., OFCT 05T3..., OFMT 05T3..., RFMT 1404..., E256
	440-16R-05	4	40	47.5	48.7	16	38	40	40.6	3.5	A	0.4	SH M8x30	
	550-22R/L-05	5	50	57.9	59.0	22	45	40	40.6	3.5	A	0.6	SH M10x30	
	663-22R-05	6	63	71.0	72.0	22	47	40	40.6	3.5	A	1.0	SH M10x30	
	780-27R/L-05	7	80	88.0	89.0	27	70	50	50.6	3.5	A	1.3	SH M12x35	
	8100-32R-05	8	100	108.0	109.0	32	85	50	50.6	3.5	A	2.6	LH M16x35	
	9125-40R-05	9	125	133.0	134.0	40	85	63	63.6	3.5	B	3.0	-	
TFM430FS	**780-25.4R-05**	7	80	88.0	89.0	25.4	70	50	50.6	3.5	A	1.3	SH M12x35	
	9125-38.1R-05	9	125	133.0	134.0	38.1	80	63	63.6	3.5	B	3.0	-	

Dimension (mm)

Spare parts

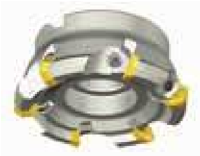
Designation	Screw	Wrench			
TFM430FS	TS 40093I	T-T15			

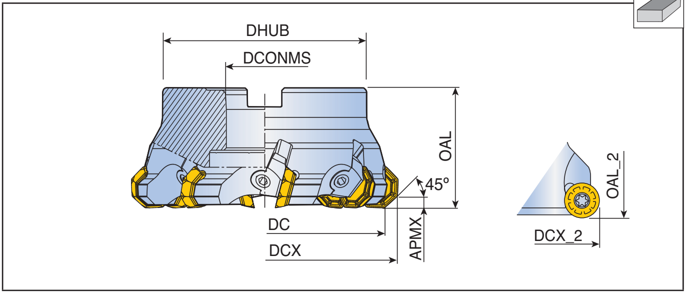
Cutting Condition E287-E289
Arbor Style E290-E291

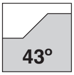
TFM43ZOFW-07

CHASEOCTO

Face mills







Designation		Number of inserts	Dimension (mm) DC	DCX	DCX_2	DCONMS	DHUB	OAL	OAL_2	APMX	Arbor style	Kg	Mounting bolt	Insert
TFM43ZOFW	463-22R-07	4	63	75.1	76.1	22	47	40	40.7	5.0	A	0.5	LH M10x25	OFCN 0704..., OFCR 0704..., OFMR 0704..., RFMR 1904... E255
	580-27R-07	5	80	92.0	93.1	27	70	50	50.7	5.0	A	1.2	SH M12x35	
	6100-32R-07	6	100	112.0	113.1	32	85	50	50.7	5.0	B	1.8	-	
	8100-32R-07	8	100	112.0	113.1	32	85	50	50.7	5.0	B	1.8	-	
	8125-40R-07	8	125	137.0	138.1	40	85	63	63.7	5.0	B	3.0	-	
	10125-40R-07	10	125	137.0	138.1	40	85	63	63.7	5.0	B	3.0	-	
	10160-40R-07	10	160	172.0	173.1	40	100	63	63.7	5.0	C	4.7	-	
	12160-40R-07	12	160	172.0	173.1	40	110	63	63.7	5.0	C	4.7	-	
	12200-60R-07	12	200	212.0	213.1	60	130	63	63.7	5.0	C	7.0	-	
	14200-60R-07	14	200	212.0	213.1	60	130	63	63.7	5.0	C	7.0	-	
TFM43ZOFW	6100-31.75R-07	6	100	112.0	113.1	31.75	80	50	50.7	5.0	B	1.8	-	
	8125-38.1R-07	8	125	137.0	138.1	38.1	80	63	63.7	5.0	B	3.0	-	
	10160-50.8R-07	10	160	172.0	173.1	50.8	100	63	63.7	5.0	B	4.7	-	

Spare parts

Designation	Wedge	Wedge screw	Wrench		
TFM43ZOFW	WFO-8Z	WS 8, *WS 8S, WS 8M	T-W 4		

Cutting Condition E287-E289

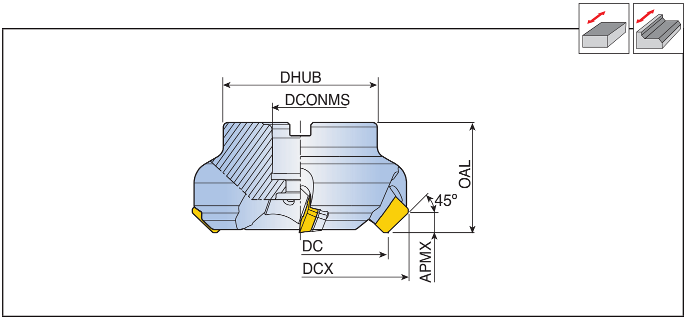
Arbor Style E290-E291

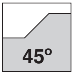
- *WS8S: For TFM43ZOFW-463...only

LM45SD-12/15

LIONMILL

Face mills (Inch bore)





Designation	Z	Dimension (mm) DC	DCX	DCONMS	DHUB	OAL	APMX	Arbor style	Kg	Mounting bolt	Insert
LM45SD 480-25.4R-12	4	80	93.8	25.4	70	50	6.5	A	1.6	LH M12x30	SDKN 1203...
5100-31.75R-12	5	100	113.8	31.75	80	60	6.5	A	2.8	LH M16x35	E264
6125-38.1R/L-12	6	125	138.8	38.1	80	63	6.5	B	3.5	-	
8160-50.8R-12	8	160	173.9	50.8	100	63	6.5	B	5.5	-	
10200-47.625R/L-12	10	200	213.9	47.625	130	63	6.5	C	7.6	-	
12250-47.625R/L-12	12	250	263.9	47.625	160	63	6.5	C	12.6	-	
LM45SD 480-25.4R-15	4	80	93.8	25.4	70	50	8.7	A	1.6	LH M12x30	SDKN 1504...
5100-31.75R-15	5	100	118.6	31.75	80	60	8.7	A	2.8	LH M16x35	E264
6125-38.1R/L-15	6	125	143.6	38.1	80	63	8.7	B	3.5	-	
8160-50.8R/L-15	8	160	178.6	50.8	100	63	8.7	B	5.5	-	
10200-47.625R/L-15	10	200	218.6	47.625	130	63	8.7	C	7.6	-	
12250-47.625R/L-15	12	250	268.6	47.625	160	63	8.7	C	12.6	-	
14315-47.625R/L-15	14	315	333.54	47.625	220	63	6.7	C	18.7	-	

• Metric bore cutter is available upon request

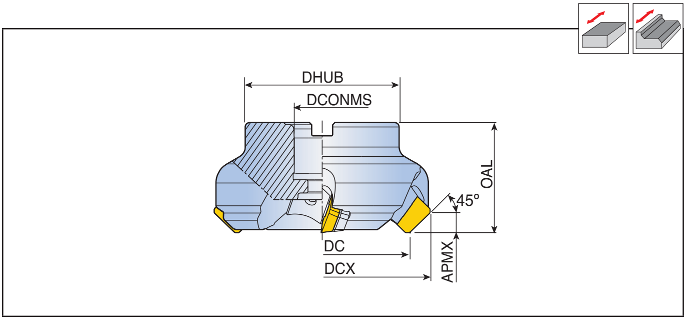
Spare parts

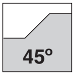
Designation	Carbide shim	Wedge	Shim screw	Wedge screw [1]	Wrench	Wrench [2]
LM45SD-12	TSSDSE 12N	WPA 8	TS 40B100I	TS 80200W	T-W 4	T-T15
LM45SD-15	TSSDSE 15N	WPA 8	TS 40B100I	TS 80160W[1]	T-W 4	T-T15

• [1] TS 80160W is for D80 cutter
• The shim screw wrench T-T15[2] shall be ordered separately

LM45SE-12/15

Face mills (Inch bore)





Designation		Z	Dimension (mm) DC	DCX	DCONMS	DHUB	OAL	APMX	Arbor style	Kg	Mounting bolt	Insert
LM45SE	**480-25.4R-12**	4	80	93.7	25.4	70	55	6.5	A	1.8	LH M12x30	SEKN 1203...
	5100-31.75R-12	5	100	113.6	31.75	80	60	6.5	A	2.8	LH M16x35	E265
	6125-38.1R-12	6	125	138.6	38.1	80	63	6.5	B	3.4	-	
	8160-50.8R/L-12	8	160	173.6	50.8	100	63	6.5	B	5	-	
	10200-47.625R/L-12	10	200	213.6	47.625	130	63	6.5	C	7.5	-	
	12250-47.625R-12	12	250	263.6	47.625	160	63	6.5	C	12.2	-	
LM45SE	**480-25.4R-15**	4	80	97.8	25.4	70	55	8.7	A	1.8	LH M12x30	SEKN 1504...
	5100-31.75R-15	5	100	118	31.75	80	60	8.7	A	2.8	LH M16x35	E265
	6125-38.1R-15	6	125	143	38.1	80	63	8.7	B	3.5	-	
	8160-50.8R/L-15	8	160	178	50.8	100	63	8.7	B	5.7	-	
	10200-47.625R/L-15	10	200	218	47.625	130	63	8.7	C	7.8	-	
	12250-47.625R-15	12	250	268	47.625	160	63	8.7	C	12.8	-	

- Metric bore cutter is available upon request

Spare parts

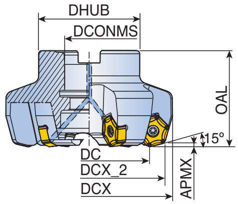
Designation	Carbide shim	Wedge	Shim screw	Wedge screw	Wrench	
				(1)		(2)
LM45SE-12	TSSDSE 12N	WPA 8	TS 40B100I	TS 80200W	T-W 4	T-T15
LM45SE-15	TSSDSE 15N	WPA 8	TS 40B100I	TS 80160W(1)	T-W 4	T-T15

- (1) TS 80160W is for D80 cutter
- The shim screw wrench T-T15(2) shall be ordered separately

TFM15HNS-10

Face mills

15°



Designation	Teeth	Dimension (mm) DCX_2	DC	DCX	DCONMS	DHUB	OAL	APMX	Coolant hole	Arbor style	Kg	Mounting bolt	Insert
TFM15HNS 580-27R-10	5	80	61.8	89	27	70	55	2.0	●	A	1.3	SH M12x35	HNHX 1006 ANTN-M E249
6100-32R-10	6	100	81.7	109	32	85	63	2.0	x	B	1.9	-	
8125-40R-10	8	125	106.7	134	40	85	63	2.0	x	B	2.9	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

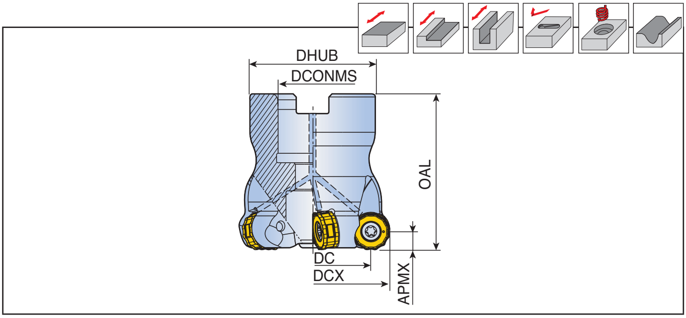
Designation	Screw	Wrench			
TFM15HNS	TS 50C130I/HG	T-T20			

Cutting Condition E287-E289

Arbor Style E290-E291

TFMRNS-10/12

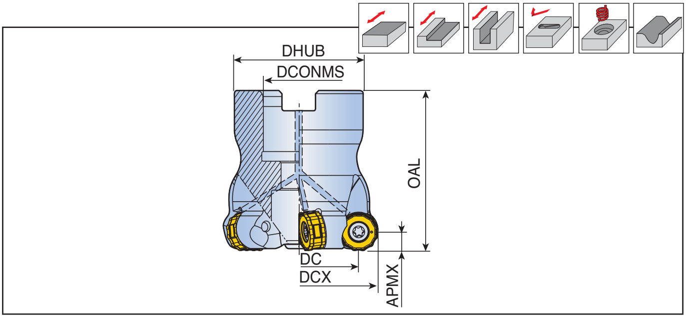
Face mills



Designation		Z	Dimension (mm) DCX	DC	DCONMS	DHUB	OAL	APMX	Coolant hole	Arbor style	Kg	Mounting bolt	Insert
TFMRNS	432-16R-10	4	32	22	16	30	40	5.0	●	E	0.1	KTB 32B	RNMU 1004...
	433-16R-10	4	33	23	16	30	40	5.0	●	E	0.1	KTB 32B	E259
	540-16R-10	5	40	30	16	38	40	5.0	●	A	0.2	SH M8x30	
	650-22R-10	6	50	40	22	45	50	5.0	●	A	0.4	SH M10x30	
	652-22R-10	6	52	42	22	45	50	5.0	●	A	0.4	SH M10x30	
TFMRNS	440-16R-12	4	40	28	16	38	40	6.0	●	A	0.2	SH M8x30	RNMU 1205...
	450-22R-12	4	50	38	22	45	50	6.0	●	A	0.3	SH M10x30	E259
	550-22R-12	5	50	40	22	45	50	6.0	●	A	0.3	SH M10x30	
	552-22R-12	5	52	40	22	45	50	6.0	●	A	0.4	SH M10x30	
	563-22R-12	5	63	51	22	47	50	6.0	●	A	0.6	SH M10x30	
	663-22R-12	6	63	51	22	47	50	6.0	●	A	0.6	SH M10x30	
	666-27R-12	6	66	54	27	58	50	6.0	●	A	0.6	SH M12x35	
	680-27R-12	6	80	68	27	58	50	6.0	●	A	1.1	SH M12x35	
	780-27R-12	7	80	68	27	58	50	6.0	●	A	1.0	SH M12x35	
	7100-32R-12	7	100	88	32	66	50	6.0	●	A	1.5	LH M16x35	
	8100-32R-12	8	100	88	32	66	50	6.0	●	A	1.5	LH M16x35	

TFMRNS-16

Face mills



Designation	Z	Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DCX	DC	DCONMS	DHUB	OAL	APMX					
TFMRNS 340-16R-16	3	40	24	16	30	55	8.0	●	E	0.3	KTB 32B	RNMU 1606... E259
350-16R-16	3	50	34	16	38	50	8.0	●	A	0.2	SH M8x30	
450-16R-16	4	50	34	16	38	50	8.0	●	A	0.2	SH M8x30	
452-22R-16	4	52	36	22	45	50	8.0	●	A	0.3	SH M10x30	
463-22R-16	4	63	47	22	47	50	8.0	●	A	0.5	SH M10x30	
566-27R-16	5	66	50	27	58	50	8.0	●	A	0.6	LH M12x30	
580-27R-16	5	80	64	27	58	50	8.0	●	A	0.9	LH M12x30	
680-27R-16	6	80	64	27	58	50	8.0	●	A	0.8	LH M12x30	
6100-32R-16	6	100	84	32	66	50	8.0	●	A	1.7	LH M16x35	
7125-40R-16	7	125	109	40	85	63	8.0	●	A	3.0	SH M20x40	
8125-40R-16	8	125	109	40	85	63	8.0	●	A	2.9	SH M20x40	
9160-40R-16	9	160	144	40	110	63	8.0	x	C	3.8	-	
10200-60R-16	10	200	184	60	130	63	8.0	x	C	5.6	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

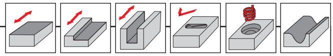
Spare parts

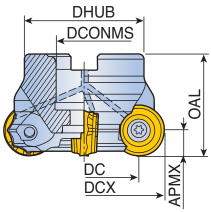
Designation	Screw	Wrench			
TFMRNS-10	TS 35085I/HG	T-T15			
TFMRNS-12	TS 40G110I	T-T15			
TFMRNS-16	TS 50A121I/HG	T-T20			

Cutting Condition E287-E289
Arbor Style E290-E291
Ramping Data E359-E360

TFMRX-10/12

Face mills

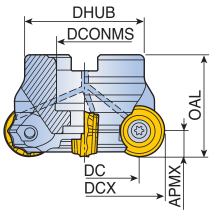




Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DCX	DC	DCONMS	DHUB	OAL	APMX					
TFMRX 650-22R-10	6	50	40	22	40	40	5.0	●	A	0.3	SH M10x30	RXM(H)X 1003... E260
652-22R-10	6	52	42	22	40	40	5.0	●	A	0.3	SH M10x30	
TFMRX 450-22R-12	4	50	38	22	40	40	6.0	●	A	0.2	LH M10x25	RXM(H)X 12T3... E260
550-22R-12	5	50	38	22	40	40	6.0	●	A	0.2	LH M10x25	
552-22R-12	5	52	40	22	40	40	6.0	●	A	0.3	SH M10x30	
563-22R-12	5	63	51	22	47	40	6.0	●	A	0.4	LH M10x25	
663-22R-12	6	63	51	22	47	40	6.0	●	A	0.4	LH M10x25	
666-27R-12	6	66	54	27	58	50	6.0	●	A	0.6	SH M12x35	
680-27R-12	6	80	68	27	58	50	6.0	●	A	0.8	SH M12x35	
7100-32R-12	7	100	88	32	66	50	6.0	x	B	1.2	-	
TFMRX 680-25.4R-12	6	80	68	25.4	58	50	6.0	●	A	1.1	SH M12x35	
7100-31.75R-12	7	100	88	31.75	80	50	6.0	x	B	1.5	-	

CHASEMOLD

Face mills



Designation		Teeth	DCX	DC	DCONMS	DHUB	OAL	APMX	Coolant hole	Arbor style	Kg	Mounting bolt	Insert
			Dimension (mm)										
TFMRX	450-16R-16	4	50	34	16	38	40	8.0	●	A	0.2	SH M8x30	RXMX
	452-22R-16	4	52	36	22	40	40	8.0	●	A	0.2	SH M10x30	1604...
	463-22R-16	4	63	47	22	47	40	8.0	●	A	0.4	LH M10x25	E260
	566-27R-16	5	66	50	27	58	50	8.0	●	A	0.5	SH M12x35	
	580-27R-16	5	80	64	27	58	50	8.0	●	A	0.8	SH M12x35	
	6100-32R-16	6	100	84	32	66	50	8.0	x	B	1.1	-	
	7125-40R-16	7	125	109	40	85	63	8.0	x	B	2.4	-	
	8160-40R-16	8	160	144	40	110	63	8.0	x	C	3.6	-	
TFMRX	580-25.4R-16	5	80	64	25.4	58	50	8.0	●	A	1.0	SH M12x35	
	6100-31.75R-16	6	100	84	31.75	80	50	8.0	x	B	1.4	-	
TFMRX	463-22R-20	4	63	43	22	47	40	10.0	●	A	0.3	LH M10x25	RXMX
	580-27R-20	5	80	60	27	58	50	10.0	●	A	0.8	LH M12x30	2006...
	6100-32R-20	6	100	80	32	85	50	10.0	x	B	1.0	-	E260
	7125-40R-20	7	125	105	40	85	63	10.0	x	B	2.5	-	
	8160-40R-20	8	160	140	40	110	63	10.0	x	C	3.7	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

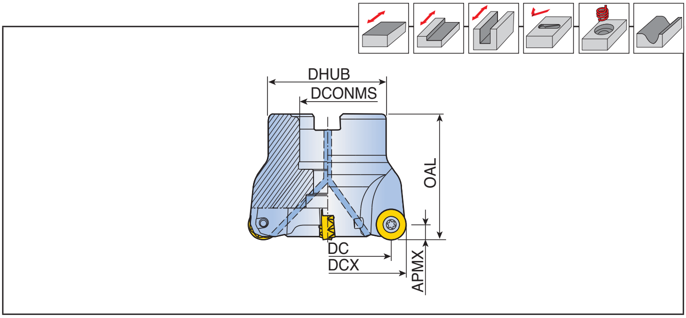
Designation	Screw	Wrench			
TFMRX-10	TS 35070I/HG	T-T15			
TFMRX-12	TS 35085I/HG	T-T15			
TFMRX-16	TS 45A100I/HG	T-T20			
TFMRX-20	TS 50115I	T-T20			

Cutting Condition E287-E289
Arbor Style E290-E291
Ramping Data E361-E363

TFMRY-08/10/12

CHASEMOLD

Face mills



Designation	Teeth	Dimension (mm) DCX	DC	DCONMS	DHUB	OAL	APMX	Coolant hole	Arbor style	Kg	Mounting bolt	Insert
TFMRY 532-16R-08	5	32	24	16	30	40	4.0	●	A	0.12	SH M8x30	RYM(H)X 0803...
640-16R-08	6	40	32	16	38	40	4.0	●	A	0.22	SH M8x30	E261-E262
TFMRY 432-16R-10	4	32	22	16	30	40	5.0	●	A	0.12	SH M8x30	RYM(H)X 1004...
540-16R-10	5	40	30	16	38	40	5.0	●	A	0.22	SH M8x30	E261-E262
640-16R-10	6	40	30	16	38	40	5.0	●	A	0.23	SH M8x30	
650-22R-10	6	50	40	22	45	50	5.0	●	A	0.33	SH M10x30	
652-22R-10	6	52	42	22	45	50	5.0	●	A	0.36	SH M10x30	
763-22R-10	7	63	53	22	47	50	5.0	●	A	0.57	SH M10x30	
766-27R-10	7	66	56	27	58	50	5.0	●	A	0.68	LH M12x30	
TFMRY 332-16R-12	3	32	20	16	30	40	6.0	●	E	0.12	KTB 32B	RYM(H)X 1205...
440-16R-12	4	40	28	16	38	40	6.0	●	A	0.15	SH M8x30	E261-E262
442-16R-12	4	42	30	16	38	40	6.0	●	A	0.21	SH M8x30	
450-22R-12	4	50	38	22	45	50	6.0	●	A	0.33	SH M10x30	
550-22R-12	5	50	38	22	45	50	6.0	●	A	0.33	SH M10x30	
552-22R-12	5	52	40	22	45	50	6.0	●	A	0.34	SH M10x30	
463-22R-12	4	63	51	22	47	50	6.0	●	A	0.57	SH M10x30	
563-22R-12	5	63	51	22	47	50	6.0	●	A	0.58	SH M10x30	
663-22R-12	6	63	51	22	47	50	6.0	●	A	0.58	SH M10x30	
763-22R-12	7	63	51	22	47	50	6.0	●	A	0.71	SH M10x30	
666-27R-12	6	66	54	27	58	50	6.0	●	A	0.62	LH M12x30	
766-27R-12	7	66	54	27	58	50	6.0	●	A	0.62	LH M12x30	
680-27R-12	6	80	68	27	58	50	6.0	●	A	0.90	LH M12x30	
780-27R-12	7	80	68	27	58	50	6.0	●	A	0.92	LH M12x30	
880-27R-12	8	80	68	27	58	50	6.0	●	A	0.98	LH M12x30	
7100-32R-12	7	100	88	32	66	50	6.0	●	A	1.29	LH M16x35	
8100-32R-12	8	100	88	32	66	50	6.0	●	A	1.37	LH M16x35	
8125-40R-12	8	125	113	40	85	63	6.0	●	A	3.00	SH M20x40	
9125-40R-12	9	125	113	40	85	63	6.0	●	A	2.99	SH M20x40	

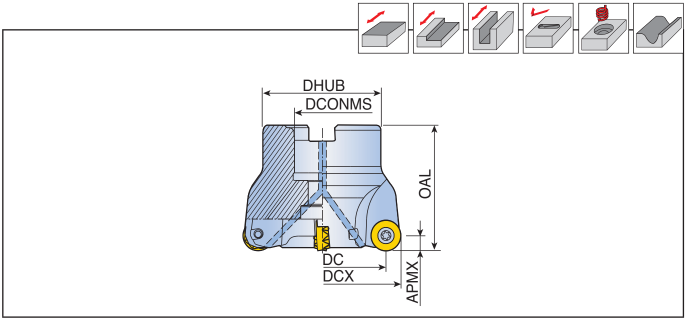
Cutting Condition E287-E289

Arbor Style E290-E291

Ramping Data E364-E366

TFMRY-16

Face mills



Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DCX	DC	DCONMS	DHUB	OAL	APMX					
TFMRY 350-16R-16	3	50	34	16	38	50	8.0	●	A	0.3	SH M8x35	RYM(H)X
450-16R-16	4	50	34	16	38	50	8.0	●	A	0.3	SH M8x35	1606...
450-22R-16	4	50	34	22	45	50	8.0	●	A	0.3	SH M10x30	
452-22R-16	4	52	36	22	45	50	8.0	●	A	0.3	SH M10x30	E261-E262
463-22R-16	4	63	47	22	47	50	8.0	●	A	0.5	SH M10x30	
463H-22R-16*	4	63	47	22	47	50	8.0	●	A	0.5	SH M10x30	
566-27R-16	5	66	50	27	58	50	8.0	●	A	0.6	LH M12x30	
580-27R-16	5	80	64	27	58	50	8.0	●	A	0.8	LH M12x30	
580H-27R-16*	5	80	64	27	58	50	8.0	●	A	0.8	LH M12x30	
680-27R-16	6	80	64	27	58	50	8.0	●	A	0.8	LH M12x30	
6100-32R-16	6	100	84	32	66	50	8.0	●	A	1.2	LH M16x35	
6100H-32R-16*	6	100	84	32	66	50	8.0	●	A	1.2	LH M16x35	
7125-40R-16	7	125	109	40	85	63	8.0	●	A	2.7	SH M20x40	
7125H-40R-16*	7	125	109	40	85	63	8.0	●	A	2.6	SH M20x40	
8125-40R-16	8	125	109	40	85	63	8.0	●	A	2.7	SH M20x40	
8160H-40R-16*	8	160	144	40	110	63	8.0	x	C	3.3	-	
TFMRY 580-25.4R-16	5	80	64	25.4	70	50	8.0	●	A	1.0	SH M12x35	

- *: Carbide shim type
- Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

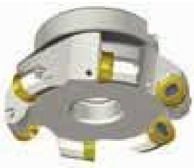
Spare parts

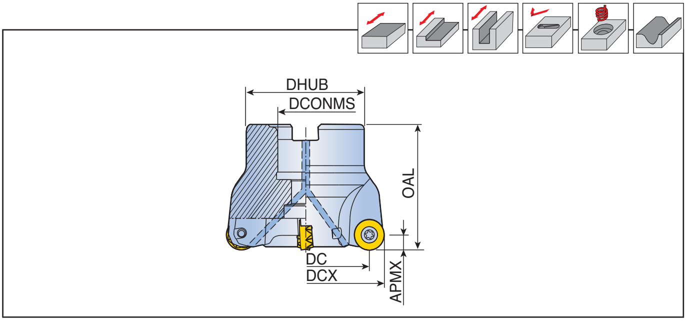
Designation	Shim	Shim screw	Screw	Wrench	
TFMRY-08	-	-	TS 30A60I/HG	TD 9	-
TFMRY-10	-	-	TS 35085/HG	-	T-T15
TFMRY-12	-	-	TS 40093I	-	T-T15
TFMRY-16	-	-	TS 50115I	-	T-T20
TFMRY...H-16	TSRY 16NS	TS 8050088S	TS 50A140I	-	T-T20

Cutting Condition E287-E289
Arbor Style E290-E291
Ramping Data E364-E366

CHASEMOLD

Face mills





Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DCX	DC	DCONMS	DHUB	OAL	APMX					
TFMRY 463-22R-20	4	63	43	22	47	50	10.0	●	A	0.5	SH M10x30	RYMX 2007...
580-27R-20	5	80	60	27	58	50	10.0	●	A	0.8	LH M12x30	
5100H-32R-20*	5	100	80	32	66	50	10.0	●	A	1.1	LH M16x35	E261-E262
6100-32R-20	6	100	80	32	66	50	10.0	●	A	1.2	LH M16x35	
5125H-40R-20*	5	125	105	40	85	63	10.0	●	A	2.7	SH M20x40	
7125-40R-20	7	125	105	40	85	63	10.0	●	A	2.5	SH M20x40	
6160H-40R-20*	6	160	140	40	110	63	10.0	x	C	2.7	-	
8160-40R-20	8	160	140	40	110	63	10.0	x	C	3.8	-	
8200H-60R-20*	8	200	180	60	130	63	10.0	x	C	5.3	-	
9250H-60R-20*	9	250	230	60	160	63	10.0	x	C	9.3	-	

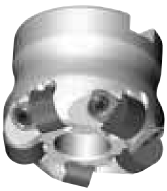
- *: Carbide shim type
- Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

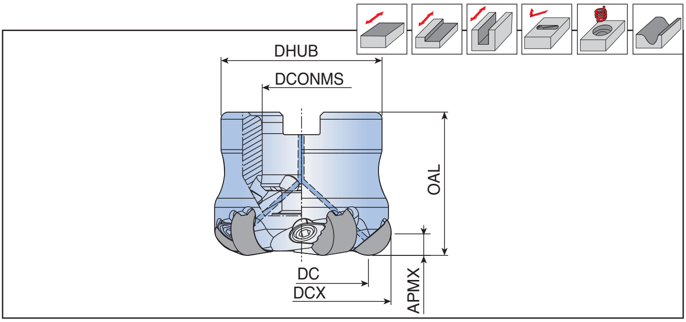
Spare parts

Designation	Shim	Shim screw	Screw	Wrench	Wrench handle
TFMRY-20	-	-	TS 60A130I	BLD T25/M7	SW6-T
TFMRY...H-20	TSRY 20NS	TS 9060011S	TS 60A165I	BLD T25/M7	SW6-T

Cutting Condition E287-E289
Arbor Style E290-E291
Ramping Data E364-E366

Face mills

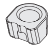
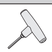




Designation		Teeth	DCX	DC	DCONMS	DHUB	OAL	APMX	Air hole(1)	Arbor style	Kg	Mounting bolt	Insert
TFMRN	450-22R-1207	4	50	37.3	22	45	40	6.3	●	A	0.4	SH M10x30	RNGN 1207
	550-22R-1207	5	50	37.3	22	45	40	6.3	●	A	0.4	SH M10x30	FL...
	463-22R-1207	4	63	50.3	22	47	40	6.3	●	A	0.6	SH M10x30	E258
	663-22R-1207	6	63	50.3	22	47	40	6.3	●	A	0.6	SH M10x30	
	763-22R-1207	7	63	50.3	22	47	40	6.3	●	A	0.6	SH M10x30	
	580-27R-1207	5	80	67.3	27	58	50	6.3	●	A	1.1	SH M12x35	
	780-27R-1207	7	80	67.3	27	58	50	6.3	●	A	1.1	SH M12x35	
	880-27R-1207	8	80	67.3	27	58	50	6.3	●	A	1.1	SH M12x35	

- Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)
- (1) Use only air (Coolant is prohibited)

Spare parts

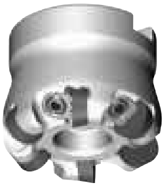
Designation	Wedge	Screw	Wrench		
					
TFMRN-12	WFZ 6-C	WS 6	T-W 3		

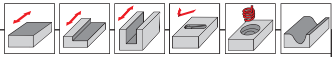
Cutting Condition E287-E289
Arbor Style E290-E291

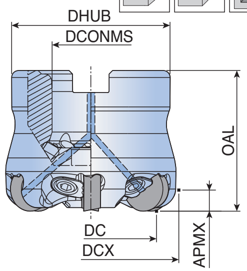
TFMRP-12

CHASESPEED

Face mills







Designation		Number of inserts	Dimension (mm) DCX	DC	DCONMS	DHUB	OAL	APMX	Air hole(1)	Arbor style	Kg	Mounting bolt	Insert
TFMRP	450-22R-12	4	50	37.3	22	45	40	6.3	●	A	0.3	LH M10x25	RPGN 1204
	650-22R-12	6	50	37.3	22	45	40	6.3	●	A	0.3	LH M10x25	FL...
													E258

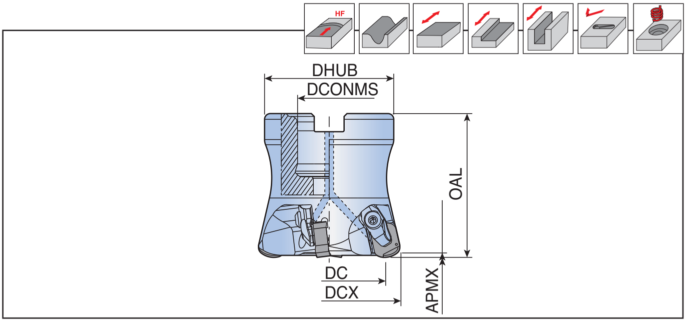
• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)
• (1) Use only air (Coolant is prohibited)

Spare parts

Designation	Wedge	Screw	Wrench		
TFMRP-12	WFZ 6-C	WS 6	T-W 3		

Cutting Condition E287-E289
Arbor Style E290-E291

High feed face mills



Designation		Dimension (mm)						Air hole(1)	Arbor style	Kg	Mounting bolt	Insert
		DCX	DC	DCONMS	DHUB	OAL	APMX					
TFMBN 440-16R-09CH	4	40	29.4	16	38	40	1.5	●	A	0.2	SH M8x30	BNGX 0904... E245
350-22R-09CH	3	50	39.4	22	45	40	1.5	●	A	0.5	SH M10x30	
550-22R-09CH	5	50	39.4	22	45	40	1.5	●	A	0.4	SH M10x30	

- Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)
- (1) Use only air (Coolant is prohibited)

Spare parts

Designation	Clamp	Screw	Snap ring	Wrench	
TFMBN-09CH	CCL-3S	CLS-35A120	CSR 1.25	L-W 2	

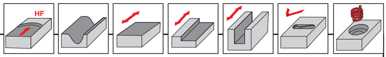
Cutting Condition E287-E289

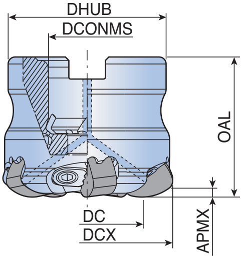
Arbor Style E290-E291

Ramping Data E367

TFMBN-12

High feed face mills

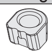
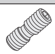
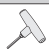




Designation		Dimension (mm)						Air hole(1)	Arbor style	Kg	Mounting bolt	Insert
		DCX	DC	DCONMS	DHUB	OAL	APMX					
TFMBN 450-22R-12	4	50	32.8	22	45	40	2.5	●	A	0.3	SH M10x30	BNGX 1207... E245
550-22R-12	5	50	32.8	22	45	40	2.5	●	A	0.3	SH M10x30	
663-22R-12	6	63	45.7	22	47	40	2.5	●	A	0.4	SH M10x30	
763-22R-12	7	63	45.7	22	47	40	2.5	●	A	0.4	SH M10x30	
780-27R-12	7	80	62.6	27	70	50	2.5	●	A	1.2	SH M12x35	
880-27R-12	8	80	62.6	27	70	50	2.5	●	A	1.2	SH M12x35	

- Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)
- (1) Use only air (Coolant is prohibited)

Spare parts

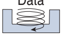
Designation	Wedge	Screw	Wrench		
					
TFMBN-12	WFZ 6-C	WS 6	T-W 3		

Cutting Condition

E287-E289

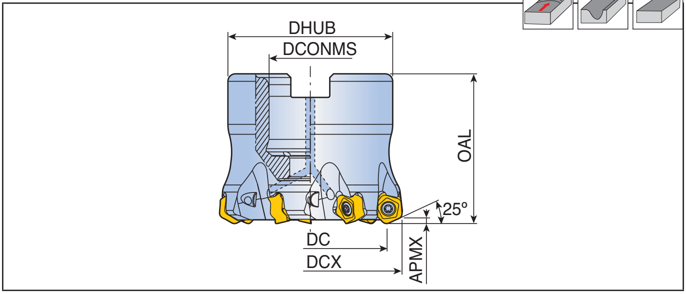
Arbor Style

E290-E291

Ramping Data

E368

TFMPT-05/10

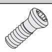
High feed face mills



Designation	Teeth	DCX	DC	DCONMS	DHUB	OAL	APMX	Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		Dimension (mm)										
TFMPT 640-16R-05	6	40	31.8	16	38	40	1.5	●	A	0.3	SH M8x25	PTKU 0503... E257
750-22R-05	7	50	41.8	22	45	40	1.5	●	A	0.4	LH M10x25	
752-22R-05	7	52	43.8	22	45	40	1.5	●	A	0.3	LH M10x25	
863-22R-05	8	63	54.8	22	58	50	1.5	●	A	0.8	SH M10x30	
866-27R-05	8	66	57.8	27	58	50	1.5	●	A	0.7	SH M12x35	
TFMPT 450-22R-10	4	50	33.4	22	45	40	3.0	●	E	0.3	TCS10-40	PTKU 1006... E257
563-22R-10	5	63	46.4	22	58	50	3.0	●	A	0.8	SH M10x30	
566-22R-10	5	66	49.4	22	58	50	3.0	●	A	0.8	SH M10x30	
680-27R-10	6	80	63.4	27	70	60	3.0	●	A	1.4	SH M12x30	
8100-32R-10	8	100	83.4	32	85	60	3.0	●	A	2.3	SH M16x35	
9125-32R-10	9	125	108.4	32	85	60	3.0	●	A	3.1	SH M16x35	
10160-40R-10	10	160	143.4	40	110	60	3.0	x	C	4.1	-	
12200-60R-10	12	200	183.4	60	130	60	3.0	x	C	5.7	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

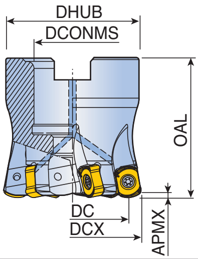
Spare parts

Designation	Screw	Wrench		Wrench handle	
					
TFMPT-05	TS 25D060/HG-P	TD7P	-	-	
TFMPT-10	TS 50D130/HG-P	-	TBLD T20P-W6	SW6-T	

Cutting Condition E287-E289 | Arbor Style E290-E291 | Ramping Data E349-E350

TFMBL-06/09

High feed face mills

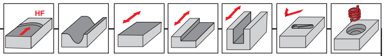


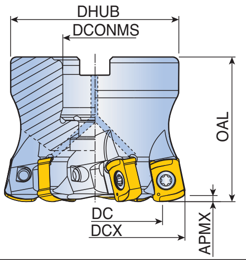
Designation		Dimension (mm) DCX	DC	DCONMS	DHUB	OAL	APMX	Coolant hole	Arbor style	Kg	Mounting bolt	Insert
TFMBL 432-16R-06	4	32	24.3	16	30	40	1.0	●	A	0.1	SH M8x25	BLMP 0603...
532-16R-06	5	32	24.3	16	30	40	1.0	●	A	0.1	SH M8x25	E243
640-16R-06	6	40	32.2	16	38	40	1.0	●	A	0.2	SH M8x25	
640-22R-06	6	40	32.2	22	38	40	1.0	●	A	0.2	SH M10x30	
650-22R-06	6	50	42.2	22	45	50	1.0	●	A	0.4	SH M10x30	
750-22R-06	7	50	42.2	22	45	50	1.0	●	A	0.4	SH M10x30	
850-22R-06	8	50	42.2	22	45	50	1.0	●	A	0.4	SH M10x30	
752-22R-06	7	52	44.2	22	45	40	1.0	●	A	0.4	SH M10x30	
852-22R-06	8	52	44.2	22	45	40	1.0	●	A	0.4	SH M10x30	
763-22R-06	7	63	55.5	22	47	50	1.0	●	A	0.6	SH M10x30	
863-22R-06	8	63	55.5	22	47	50	1.0	●	A	0.6	SH M10x30	
963-22R-06	9	63	55.5	22	47	50	1.0	●	A	0.6	SH M10x30	
966-27R-06	9	66	58.5	27	58	50	1.0	●	A	0.7	SH M12x35	
TFMBL 432-16R-09	4	32	21.6	16	30	40	1.5	●	E	0.1	KTB 32B	BLMP 0904...
440-16R-09	4	40	29.6	16	38	40	1.5	●	A	0.2	SH M8x25	E243
540-16R-09	5	40	29.6	16	38	40	1.5	●	A	0.2	SH M8x25	
550-22R-09	5	50	39.6	22	45	50	1.5	●	A	0.4	SH M10x30	
650-22R-09	6	50	39.6	22	45	50	1.5	●	A	0.4	SH M10x30	
750-22R-09	7	50	39.6	22	45	50	1.5	●	A	0.4	SH M10x30	
652-22R-09	6	52	41.6	22	45	40	1.5	●	A	0.4	SH M10x30	
752-22R-09	7	52	41.6	22	45	40	1.5	●	A	0.4	SH M10x30	
663-22R-09	6	63	52.6	22	47	50	1.5	●	A	0.6	SH M10x30	
763-22R-09	7	63	52.6	22	47	50	1.5	●	A	0.6	SH M10x30	
863-22R-09	8	63	52.6	22	47	50	1.5	●	A	0.6	SH M10x30	
766-27R-09	7	66	55.6	27	58	50	1.5	●	A	0.7	SH M12x35	
866-27R-09	8	66	55.6	27	58	50	1.5	●	A	0.8	SH M12x35	
780-27R-09	7	80	69.6	27	70	50	1.5	●	A	1.2	SH M12x35	
880-27R-09	8	80	69.6	27	70	50	1.5	●	A	1.2	SH M12x35	
980-27R-09	9	80	69.6	27	70	50	1.5	●	A	1.2	SH M12x35	
1080-27R-09	10	80	69.6	27	70	50	1.5	●	A	1.2	SH M12x35	
8100-32R-09	8	100	89.6	32	85	60	1.5	●	A	2.3	SH M16x35	
9100-32R-09	9	100	89.6	32	85	60	1.5	●	A	2.3	SH M16x35	
10100-32R-09	10	100	89.6	32	85	60	1.5	●	A	2.3	SH M16x35	
11100-32R-09	11	100	89.6	32	85	60	1.5	●	A	2.3	SH M16x35	
12100-32R-09	12	100	89.6	32	85	60	1.5	●	A	2.3	SH M16x35	
12125-40R-09	12	125	114.6	40	85	60	1.5	●	A	2.7	SH M20x40	
14125-40R-09	14	125	114.6	40	85	60	1.5	●	A	2.7	SH M20x40	

Cutting Condition E287-E289
Arbor Style E290-E291
Ramping Data E352-E355

TFMBL-11

High feed face mills





Designation			Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
			DCX	DC	DCONMS	DHUB	OAL	APMX					
TFMBL	**440-16R-11**	4	40	24.4	16	30	40	2.0	●	E	0.2	KTB 32B	BLMP 1105... E243
	450-22R-11	4	50	34.4	22	45	40	2.0	●	A	0.3	LH M10x25	
	550-22R-11	5	50	34.4	22	45	40	2.0	●	A	0.3	LH M10x25	
	552-22R-11	5	52	36.4	22	45	40	2.0	●	A	0.3	LH M10x25	
	563-22R-11	5	63	48.4	22	58	50	2.0	●	A	0.7	SH M10x30	
	663-22R-11	6	63	48.4	22	58	50	2.0	●	A	0.7	SH M10x30	
	666-22R-11	6	66	50.3	22	58	50	2.0	●	A	0.8	SH M10x30	
	680-27R-11	6	80	64.3	27	70	60	2.0	●	A	1.4	SH M12x30	
	780-27R-11	7	80	64.3	27	70	60	2.0	●	A	1.4	SH M12x30	
	6100-32R-11	6	100	84.3	32	85	60	2.0	●	A	2.2	SH M16x35	
	7100-32R-11	7	100	84.3	32	85	60	2.0	●	A	2.2	SH M16x35	
	8125-32R-11	8	125	109.3	32	85	60	2.0	●	A	2.5	SH M20x40	
	10125-40R-11	10	125	109.3	40	85	60	2.0	●	A	2.7	SH M20x40	
	10160-40R-11	10	160	144.3	40	110	60	2.0	x	C	3.9	-	
	12200-60R-11	12	200	184.3	60	130	60	2.0	x	C	5.8	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

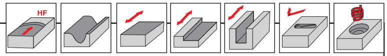
Designation	Screw	Wrench		Wrench handle	
TFMBL-06	TS 25064I/SG	TD 8P	-	-	
TFMBL-09	TS 35A088I/HG	TD 10P	-	-	
TFMBL-11	TS 50A121I/HG	-	TBLD T20-W6	SW6-T	

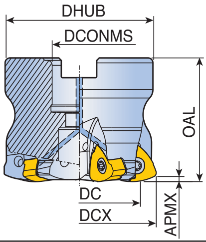
Cutting Condition E287-E289
Arbor Style E290-E291
Ramping Data E352-E355

TFMBL-13

CHASE2FEED

High feed face mills



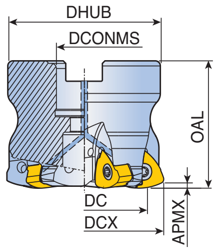


Designation		Z	Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
			DCX	DC	DCONMS	DHUB	OAL	APMX					
TFMBL	340-16R-13	3	40	20.7	16	30	50	2.0	●	A	0.2	KTB 32B	BLMP 1306...
	350-22R-13	3	50	31.0	22	45	40	2.0	●	A	0.3	LH M10x25	E244
	450-22R-13	4	50	31.0	22	45	40	2.0	●	A	0.3	LH M10x25	
	452-22R-13	4	52	32.2	22	45	40	2.0	●	A	0.3	SH M10x30	
	463-22R-13	4	63	45.8	22	60	50	2.0	●	A	0.8	SH M10x30	
	563-22R-13	5	63	45.8	22	60	50	2.0	●	A	0.8	SH M10x30	
	463-27R-13	4	63	45.8	27	58	50	2.0	●	A	0.7	SH M12x30	
	466-22R-13	4	66	45.9	22	60	50	2.0	●	A	0.8	SH M10x30	
	566-22R-13	5	66	45.9	22	60	50	2.0	●	A	0.8	SH M10x30	
	566-27R-13	5	66	45.9	27	58	50	2.0	●	A	0.7	SH M12x30	
	580-27R-13	5	80	59.8	27	70	60	2.0	●	A	1.4	SH M12x30	
	680-27R-13	6	80	59.8	27	70	60	2.0	●	A	1.4	SH M12x30	
	580-32R-13	5	80	59.8	32	76	60	2.0	●	A	1.4	SH M16x35	
	5100-32R-13	5	100	79.7	32	76	60	2.0	●	A	1.9	SH M16x35	
	6100-32R-13	6	100	79.7	32	76	60	2.0	●	A	2.0	SH M16x35	
	7100-32R-13	7	100	79.7	32	76	60	2.0	●	A	2.0	SH M16x35	
	6125-32R-13	6	125	104.5	32	85	60	2.0	●	A	3.0	SH M16x35	
	7125-40R-13	7	125	104.5	40	85	60	2.0	●	A	2.9	SH M20x35	
	7160-40R-13	7	160	139.5	40	110	60	2.0	x	C	3.6	-	
	8160-40R-13	8	160	139.5	40	110	60	2.0	x	C	3.6	-	
	9160-40R-13	9	160	139.5	40	110	60	2.0	x	C	3.8	-	
	8200-60R-13	8	200	179.5	60	130	60	2.0	x	C	5.4	-	
	9200-60R-13	9	200	179.5	60	130	60	2.0	x	C	5.3	-	
	11200-60R-13	11	200	179.5	60	130	60	2.0	x	C	5.5	-	
	9250-60R-13	9	250	229.5	60	160	60	2.0	x	C	10.6	-	
	10250-60R-13	10	250	229.5	60	160	60	2.0	x	C	10.6	-	
	12250-60R-13	12	250	229.5	60	160	60	2.0	x	C	10.7	-	

Cutting Condition E287-E289
Arbor Style E290-E291
Ramping Data E356

TFMBL-13

High feed face mills (Inch bore)



Designation		Z	Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
			DCX	DC	DCONMS	DHUB	OAL	APMX					
TFMBL	580-25.4R-13	5	80	59.8	25.4	70	60	2.0	●	A	1.3	SH M12x30	BLMP 1306... E244
	580-31.75R-13	5	80	59.8	31.75	76	60	2.0	●	A	1.3	SH M16x35	
	6100-31.75R-13	6	100	79.7	31.75	76	60	2.0	●	A	1.9	SH M16x35	
	7125-38.1R-13	7	125	104.5	38.1	80	60	2.0	x	B	3.0	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

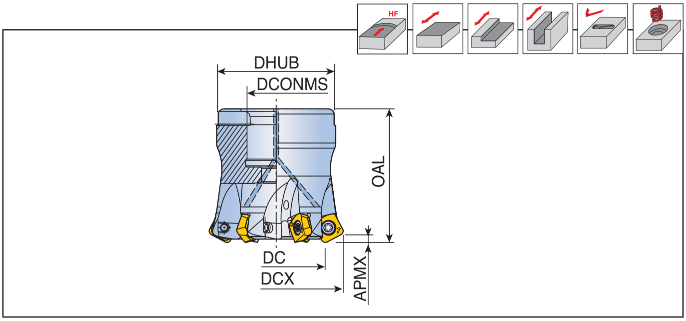
Designation	Screw	Wrench			
TFMBL-13	TS 50B106I/HG	T-T20			

Cutting Condition E287-E289
Arbor Style E290-E291
Ramping Data E356

TFMSB-09

CHASEFEED

High feed face mills



Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DCX	DC	DCONMS	DHUB	OAL	APMX					
TFMSB 432-16R-09	4	32	17.4	16	30	40	1.2	●	E	0.1	KTB 32B	SBMT 0904...
440-16R-09	4	40	25.5	16	38	40	1.2	●	A	0.2	SH M8x25	E263
540-16R-09	5	40	25.5	16	38	40	1.2	●	A	0.2	SH M8x25	
450-22R-09	4	50	35.5	22	45	50	1.2	●	A	0.4	SH M10x30	
550-22R-09	5	50	35.5	22	45	50	1.2	●	A	0.4	SH M10x30	
650-22R-09	6	50	35.5	22	45	50	1.2	●	A	0.4	SH M10x30	
750-22R-09	7	50	35.5	22	45	50	1.2	●	A	0.4	SH M10x30	
652-22R-09	6	52	37.5	22	45	50	1.2	●	A	0.4	SH M10x30	
752-22R-09	7	52	37.5	22	45	50	1.2	●	A	0.4	SH M10x30	
663-22R-09	6	63	48.4	22	58	50	1.2	●	A	0.8	SH M10x30	
763-22R-09	7	63	48.4	22	58	50	1.2	●	A	0.8	SH M10x30	
763-27R-09	7	63	48.4	27	58	50	1.2	●	A	0.7	SH M12x35	
863-22R-09	8	63	48.4	22	58	50	1.2	●	A	0.8	SH M10x30	
866-22R-09	8	66	51.5	22	58	50	1.2	●	A	0.8	SH M10x30	
780-27R-09	7	80	65.8	27	70	60	1.2	●	A	1.4	SH M12x35	
880-27R-09	8	80	65.8	27	70	60	1.2	●	A	1.4	SH M12x35	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M8x1.25x25-C)

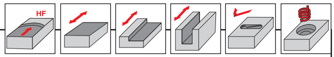
Spare parts

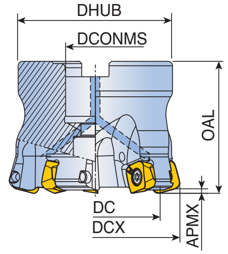
Designation	Screw	Wrench			
TFMSB-09	TS 35A088I/HG	TD 10P			
TFMSB 750-22R-09	TS 35A070I/HG	TD 10P			
TFMSB 752-22R-09	TS 35A070I/HG	TD 10P			

Cutting Condition E287-E289
Arbor Style E290-E291
Ramping Data E357

TFMSB-13

High feed face mills

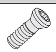
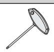




Designation	(teeth)	Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DCX	DC	DCONMS	DHUB	OAL	APMX					
TFMSB 350-22R-13	3	50	29.3	22	45	40	2	●	A	0.3	LH M10x25	SBMT 1306...
450-22R-13	4	50	29.3	22	45	40	2	●	A	0.2	LH M10x25	E263
452-22R-13	4	52	31.3	22	45	40	2	●	A	0.3	LH M10x25	
552-22R-13	5	52	31.3	22	45	40	2	●	A	0.2	LH M10x25	
463-22R-13	4	63	42.4	22	58	50	2	●	A	0.6	SH M10x30	
563-22R-13	5	63	42.4	22	58	50	2	●	A	0.5	SH M10x30	
463-27R-13	4	63	42.4	27	58	50	2	●	A	0.5	SH M12x35	
566-27R-13	5	66	45.3	27	58	50	2	●	A	0.6	SH M12x35	
580-27R-13	5	80	59.4	27	70	60	2	●	A	1.3	SH M12x35	
680-27R-13	6	80	59.4	27	70	60	2	●	A	1.3	SH M12x35	
580-32R-13	5	80	59.4	32	76	60	2	●	A	1.3	SH M16x35	
6100-32R-13	6	100	79.4	32	76	60	2	●	A	1.9	SH M16x35	
7125-40R-13	7	125	104.7	40	85	60	2	●	A	2.5	SH M20x40	
8160-40R-13	8	160	139.4	40	110	60	2	x	B	3.5	-	
9200-60R-13	9	200	179.4	60	130	60	2	x	B	5.1	-	
10250-60R-13	10	250	229.4	60	160	60	2	x	B	9.1	-	
TFMSB 463-25.4R-13	4	63	42.4	25.4	58	50	2	●	A	0.5	SH M12x35	
580-25.4R-13	5	80	59.4	25.4	70	60	2	●	A	1.3	SH M12x35	
580-31.75R-13	5	80	59.4	31.75	76	60	2	●	A	1.3	SH M16x35	
7125-38.1R-13	7	125	104.7	38.1	80	60	2	x	B	2.2	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

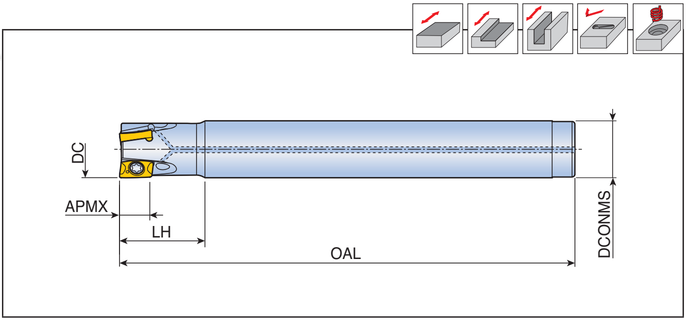
Spare parts

Designation	Screw	Wrench			
					
TFMSB-13	TS 50115I	T-T20			

Cutting Condition E287-E289
Arbor Style E290-E291
Ramping Data E358

2S-TE90CV-05

End mills



90°

Designation		Dimension (mm)					Coolant hole	Insert
		DC	DCONMS	OAL	LH	APMX		
2S-TE90CV-106-06-05	1	6	6	60	12	5.0	●	CVK(H)T 0502... E246
208-08-05	2	8	8	80	12	5.0	●	
209-08-05	2	9	8	80	12	5.0	●	
310-10-05	3	10	10	80	15	5.0	●	
311-10-05	3	11	10	80	12	5.0	●	
412-12-05	4	12	12	80	15	5.0	●	
413-12-05	4	13	12	80	12	5.0	●	
414-12-05	4	14	12	80	10	5.0	●	

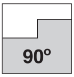
Cutting Condition E287-E289

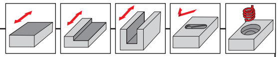
Ramping Data E304-E305

• Cutter body for '-HF' insert should be modified with body corner radius 1.8 mm

2S-TE90CV-M(S)-05

Modular heads





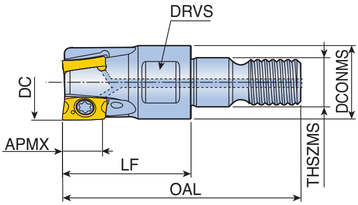


Fig.1

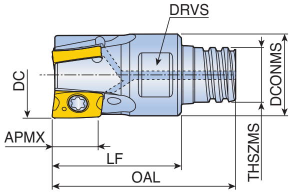


Fig.2

Designation		⚙	Dimension (mm)							Coolant hole	Fig.	Insert
			DC	DCONMS	LF	OAL	THSZMS	APMX	DRVS			
2S-TE90CV-	**310-M06-05**	3	10	9.7	17	31.5	M06	5.0	8	●	1	CVK(H)T 0502...
	412-M06-05	4	12	9.7	17	31.5	M06	5.0	8	●	1	E246
2S-TE90CV-	**310-S06-05**	3	10	9.6	15	21.3	S06	5.0	8	●	2	
	412-S08-05	4	12	11.5	16	23.5	S08	5.0	10	●	2	

- Cutter body for '-HF' insert should be modified with body corner radius 1.8 mm
- Matched with T-FLEXTEC holder & MAXI-RUSH holder

Spare parts

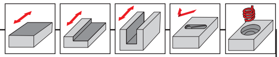
Designation	Screw	Wrench			
2S-TE90CV-05	TS 18033/HG-P	TD 6P			

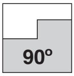
Cutting Condition E287-E289
Ramping Data E304-E305

4T-TE90-05/09

TANGSPEED

End mills





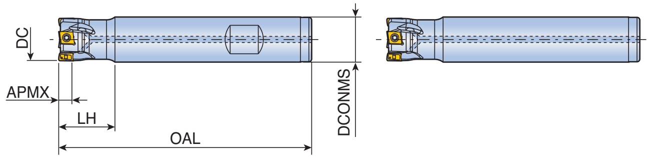


Fig.1

Fig.2

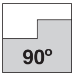
Designation		Dimension (mm)					Coolant hole	Fig.	Insert
		DC	DCONMS	OAL	LH	APMX			
4T-TE90- 210-10-05	2	10	10	80	15	4.6	●	2	LPK(H)U 0502... E251
211-10-05	2	11	10	80	15	4.6	●	2	
212-12-05	2	12	12	80	15	4.6	●	2	
312-12-05	3	12	12	80	15	4.6	●	2	
313-12-05	3	13	12	80	15	4.6	●	2	
316-W16-05	3	16	16	90	20	4.6	●	1	
416-W16-05	4	16	16	90	20	4.6	●	1	
420-W20-05	4	20	20	100	25	4.6	●	1	
520-W20-05	5	20	20	100	25	4.6	●	1	
625-W25-05	6	25	25	110	30	4.6	●	1	
832-W25-05	8	32	25	110	20	4.6	●	1	
4T-TE90- 220-W20-09	2	20	20	100	30	8.3	●	1	LPK(H)U 0904... E251
220-20-09-L170	2	20	20	170	30	8.3	●	2	
320-W20-09	3	20	20	100	30	8.3	●	1	
325-W25-09	3	25	25	100	30	8.3	●	1	
325-25-09-L200	3	25	25	200	30	8.3	●	2	
425-W25-09	4	25	25	100	30	8.3	●	1	
425-25-09-L120	4	25	25	120	30	8.3	●	2	
332-W32-09	3	32	32	110	35	8.3	●	1	
332-32-09-L210	3	32	32	210	35	8.3	●	2	
532-W32-09	5	32	32	110	35	8.3	●	1	
532-32-09-L130	5	32	32	130	35	8.3	●	2	
440-W32-09	4	40	32	115	30	8.3	●	1	
440-32-09-L150	4	40	32	150	30	8.3	●	2	
640-W32-09	6	40	32	115	30	8.3	●	1	

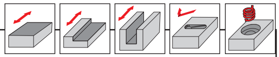
Cutting Condition E287-E289

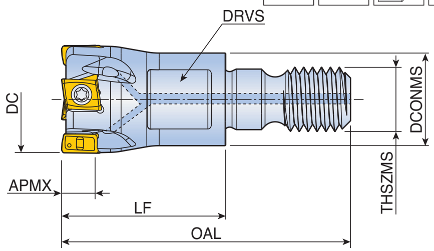
Ramping Data E306-E307

4T-TE90-M-05/09

Modular heads for T-FLEXTEC



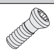
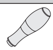


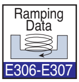


Designation		Dimension (mm)							Coolant hole	Insert
		DC	DCONMS	LF	OAL	THSZMS	APMX	DRVS		
4T-TE90-210-M06-05	2	10	9.7	17	31.5	M06	4.6	8	●	LPK(H)U 0502... E251
312-M06-05	3	12	11	17	31.5	M06	4.6	8	●	
416-M08-05	4	16	13	23	40.5	M08	4.6	10	●	
520-M10-05	5	20	18	23	43	M10	4.6	15	●	
625-M12-05	6	25	21	27	49	M12	4.6	17	●	
832-M16-05	8	32	29	27	52	M16	4.6	25	●	
4T-TE90-220-M10-09	2	20	18	30	50	M10	8.3	15	●	LPK(H)U 0904... E251
320-M10-09	3	20	18	30	50	M10	8.3	15	●	
425-M12-09	4	25	21	35	57	M12	8.3	17	●	
532-M16-09	5	32	29	43	68	M16	8.3	25	●	
640-M16-09	6	40	29	43	68	M16	8.3	25	●	

• Matched with T-FLEXTEC holder

Spare parts

Designation	Screw	Wrench		Wrench handle	
					
4T-TE90-05	TS 18041I/SG-P	TD 6P	-	-	
4T-TE90-09	TS 30D082-P	-	TBLD T08P-W4	THND 4W	



3P-TE90-04

End mills

90°

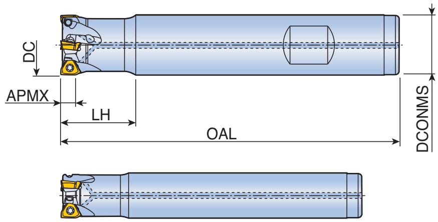


Fig.1

Fig.2

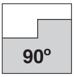
Designation		Number of inserts	Dimension (mm) DC	DCONMS	OAL	LH	APMX	Coolant hole	Fig.	Insert
3P-TE90-	108-08-04	1	8	8	80	17	3.5	●	2	3PKT 0402... E227
	210-10-04	2	10	10	80	17	3.5	●	2	
	210-09-04-L	2	10	9	120	10	3.5	●	2	
	211-10-04	2	11	10	80	11	3.5	●	2	
	212-11-04-L	2	12	11	120	11	3.5	●	2	
	212-12-04	2	12	12	80	18	3.5	●	2	
	212-12-04-L	2	12	12	120	18	3.5	●	2	
	312-12-04	3	12	12	80	18	3.5	●	2	
	313-12-04	3	13	12	90	11	3.5	●	2	
	314-12-04	3	14	12	90	12	3.5	●	2	
	316-16-04	3	16	16	110	20	3.5	●	2	
	416-W16-04	4	16	16	90	20	3.5	●	1	

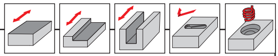
Cutting Condition E287-E289

Ramping Data E308-E310

3P-TE90-M(S)-04

Modular heads





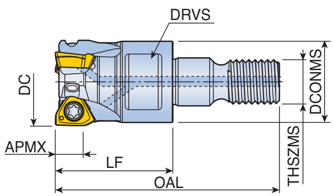


Fig.1

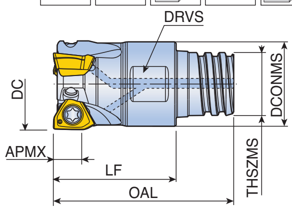


Fig.2

Designation	Z	Dimension (mm)							Coolant hole	Fig.	Insert
		DC	DCONMS	LF	OAL	THSZMS	APMX	DRVS			
3P-TE90-210-M06-04	2	10	9.7	17	31.5	M06	3.5	8	●	1	3PKT 0402... E227
312-M06-04	3	12	11	17	31.5	M06	3.5	8	●	1	
416-M08-04	4	16	13	23	40.5	M08	3.5	10	●	1	
3P-TE90-210-S06-04	2	10	9.6	15	21.3	S06	3.5	8	●	2	
312-S08-04	3	12	11.5	16	23.5	S08	3.5	10	●	2	
416-S10-04	4	16	15.2	20	31.3	S10	3.5	13	●	2	

• Matched with T-FLEXTEC holder & MAXI-RUSH holder

Spare parts

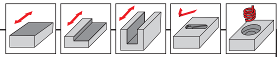
Designation	Screw	Wrench			
3P-TE90-04 (ø8)	TS 18033/HG-P	TD 6P			
3P-TE90-04 (ø10-)	TS 18041I/HG	TD 6P			

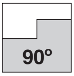
Cutting Condition E287-E289

Ramping Data E308-E310

3P TE90-06

End mills





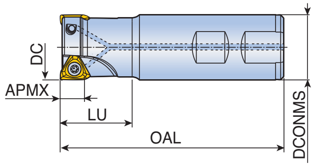


Fig.1

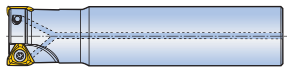


Fig.2

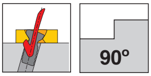
Designation	Cutting edges	Dimension (mm) DC	DCONMS	OAL	LU	APMX	Coolant hole	Fig.	Insert
3P TE90-112-12-06-L80	1	12	12	80	20	4.7	●	2	3PK(H)T 0603...
114-12-06-L80	1	14	12	80	20	4.7	●	2	E227
216-W16-06	2	16	16	90	25	4.7	●	1	
216-16-06-L110	2	16	16	110	25	4.7	●	2	
216-16-06-L150	2	16	16	150	25	4.7	●	2	
317-16-06-L110	3	17	16	110	25	4.7	●	2	
318-W16-06	3	18	16	90	25	4.7	●	1	
318-16-06-L150	3	18	16	150	25	4.7	●	2	
319-16-06-L150	3	19	16	150	25	4.7	●	2	
320-W20-06	3	20	20	105	25	4.7	●	1	
420-W20-06	4	20	20	105	25	4.7	●	1	
320-20-06-L160	3	20	20	160	25	4.7	●	2	
420-19-06-L160	4	20	19	160	25	4.7	●	2	
421-20-06-L160	4	21	20	160	25	4.7	●	2	
422-W20-06	4	22	20	110	25	4.7	●	1	
425-W20-06	4	25	20	115	25	4.7	●	1	
525-W20-06	5	25	20	115	25	4.7	●	1	
525-W25-06	5	25	25	115	25	4.7	●	1	
630-W25-06	6	30	25	130	30	4.7	●	1	
632-W25-06	6	32	25	130	30	4.7	●	1	
732-W25-06	7	32	25	130	30	4.7	●	1	
840-W32-06	8	40	32	130	30	4.7	●	1	

Cutting Condition E287-E289

Ramping Data E308-E310

3P TE90-10

End mills



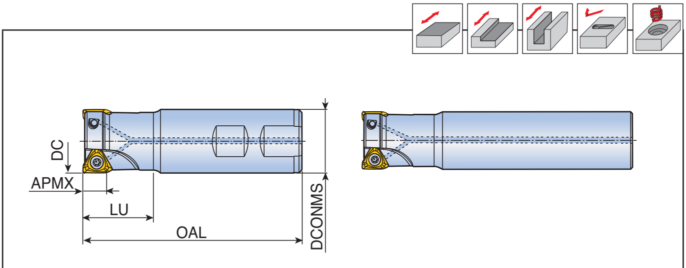


Fig.1 Fig.2

Designation		Dimension (mm)					Coolant hole	Fig.	Insert
		DC	DCONMS	OAL	LU	APMX			
3P TE90-116-W16-10	1	16	16	90	20	7.0	●	1	3PK(H)T 1004... E227
220-W20-10	2	20	20	90	25	7.0	●	1	
220-19-10-L170	2	20	19	170	30	7.0	x	2	
220-20-10-L170	2	20	20	170	40	7.0	x	2	
221-20-10-L200	2	21	20	200	30	7.0	x	2	
222-W20-10	2	22	20	100	25	7.0	●	1	
225-25-10-L210	2	25	25	210	40	7.0	x	2	
325-W20-10	3	25	20	100	30	7.0	●	1	
325-W25-10	3	25	25	100	30	7.0	●	1	
325-24-10-L210	3	25	24	210	35	7.0	x	2	
325-25-10-L210	3	25	25	210	40	7.0	x	2	
226-25-10-L250	2	26	25	250	30	7.0	x	2	
330-W25-10	3	30	25	110	35	7.0	●	1	
232-W25-10	2	32	25	110	35	7.0	●	1	
332-W25-10	3	32	25	110	35	7.0	●	1	
332-32-10-L250	3	32	32	250	60	7.0	x	2	
432-W32-10	4	32	32	110	40	7.0	●	1	
532-W32-10	5	32	32	110	40	7.0	●	1	
333-32-10-L250	3	33	32	250	35	7.0	x	2	
440-32-10-L200	4	40	32	200	40	7.0	x	2	
540-W32-10	5	40	32	115	40	7.0	●	1	
640-W32-10	6	40	32	115	40	7.0.0	●	1	

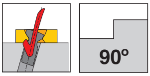
Cutting Condition E287-E289

Ramping Data E308-E310

3P TE90-15/19

MILLRUSH

End mills



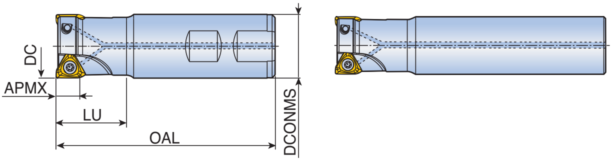


Fig.1

Fig.2

Designation		Dimension (mm)					Coolant hole	Fig.	Insert
		DC	DCONMS	OAL	LU	APMX			
3P TE90-232-W32-15	2	32	32	110	40	11.0	●	1	3PK(H)T 1505... E227-E228
232-32-15-L250	2	32	32	250	60	11.0	x	2	
332-W25-15	3	32	25	100	40	11.0	●	1	
332-W25-15-L155	3	32	25	155	35	11.0	x	2	
332-W32-15	3	32	32	110	40	11.0	●	1	
332-32-15-L150	3	32	32	150	40	11.0	x	2	
332-32-15-L250	3	32	32	250	60	11.0	x	2	
233-32-15-L200	2	33	32	200	40	11.0	x	2	
233-32-15-L250	2	33	32	250	40	11.0	x	2	
335-W32-15	3	35	32	110	40	11.0	●	1	
340-W32-15	3	40	32	110	40	11.0	●	1	
340-32-15-L200	3	40	32	200	40	11.0	x	2	
440-W32-15	4	40	32	110	40	11.0	●	1	
3P TE90-240-32-19-L250	2	40	32	250	45	15.0	x	2	3PK(H)T 1906... E227-E228
340-W32-19	3	40	32	115	45	15.0	●	1	
340-32-19-L200	3	40	32	200	45	15.0	x	2	
450-W32-19	4	50	32	115	45	15.0	●	1	

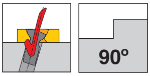
Cutting Condition E287-E289

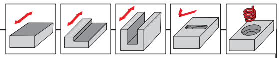
Ramping Data E308-E310

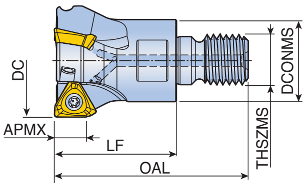
TaeguTec Member IMC Group

3P TE90-M-06/10/15/19

Modular heads







Designation	Number of teeth	Dimension (mm)						Coolant hole	Insert
		DC	DCONMS	LF	OAL	THSZMS	APMX		
3P TE90-216-M08-06	2	16	13	23	40.5	M08	4.7	●	3PK(H)T 0603... E227
320-M10-06	3	20	18	35	55	M10	4.7	●	
420-M10-06	4	20	18	35	55	M10	4.7	●	
425-M12-06	4	25	21	35	57	M12	4.7	●	
525-M12-06	5	25	21	35	57	M12	4.7	●	
632-M16-06	6	32	29	43	68	M16	4.7	●	
732-M16-06	7	32	29	43	68	M16	4.7	●	
735-M16-06	7	35	29	43	68	M16	4.7	●	
3P TE90-220-M10-10	2	20	18	35	55	M10	7.0	●	3PK(H)T 1004... E227
325-M12-10	3	25	21	35	57	M12	7.0	●	
326-M12-10	3	26	21	35	57	M12	7.0	●	
432-M16-10	4	32	29	43	68	M16	7.0	●	
532-M16-10	5	32	29	43	68	M16	7.0	●	
535-M16-10	5	35	29	43	68	M16	7.0	●	
540-M16-10	5	40	29	43	68	M16	7.0	●	
640-M16-10	6	40	29	43	68	M16	7.0	●	
642-M16-10	6	42	29	43	68	M16	7.0	●	
3P TE90-232-M16-15	2	32	29	43	68	M16	11.0	●	3PK(H)T 1505... E227-E228
332-M16-15	3	32	29	43	68	M16	11.0	●	
340-M16-15	3	40	29	43	68	M16	11.0	●	
440-M16-15	4	40	29	43	68	M16	11.0	●	
3P TE90-340-M16-19	3	40	29	43	68	M16	15.0	●	3PK(H)T 1906... E227-E228

• Matched with T-FLEXTEC holder

Spare parts

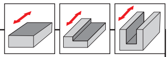
Designation	Screw	Wrench			
3P TE90-06	TS 20043I/HG-P	TD 6P	-		
3P TE90-10	TS 25C065I/HG	TD 8	-		
3P TE90-15	TS 40B100I	TD 15	-		
3P TE90-19	TS 45120I	-	T-T20		

Cutting Condition E287-E289

Ramping Data E308-E310

6N TE90-04/06/09

End Mills



90°

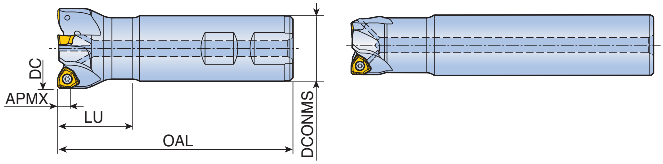


Fig.1 Fig.2

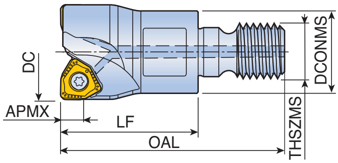
Designation	(No. of teeth)	Dimension (mm) DC	DCONMS	OAL	LU	APMX	Coolant hole	Fig.	Insert
6N TE90-320-W20-04	3	20	20	90	30	4.1	●	1	6NKU 0403...
320-20-04-L160	3	20	20	160	30	4.1	●	2	E233
425-25-04-L170	4	25	25	170	30	4.1	●	2	
525-W25-04	5	25	25	100	35	4.1	●	1	
532-32-04-L200	5	32	32	200	40	4.1	●	2	
632-W32-04	6	32	32	110	40	4.1	●	1	
6N TE90-225-W25-06	2	25	25	100	30	6.2	●	1	6NGU 0604...
225-25-06 -L150	2	25	25	150	30	6.2	●	2	E232
232-W32-06	2	32	32	110	40	6.2	●	1	
232-32-06 -L160	2	32	32	160	40	6.2	●	2	
332-W32-06	3	32	32	110	40	6.2	●	1	
332-32-06 -L160	3	32	32	160	40	6.2	●	2	
340-W32-06	3	40	32	115	40	6.2	●	1	
340-32-06-L200	3	40	32	200	40	6.2	●	2	
440-W32-06	4	40	32	115	40	6.2	●	1	
6N TE90-232-W32-09	2	32	32	110	40	9.2	●	1	6NGU 0905...
232-32-09-L160	2	32	32	160	60	9.2	●	2	E232
340-W32-09	3	40	32	120	40	9.2	●	1	
340-32-09-L200	3	40	32	200	40	9.2	●	2	
440-W32-09	4	40	32	120	40	9.2	●	1	

Cutting Condition
E287-E289

6N TE90-...-M...-04/06/09

Modular heads

90°



Designation		Dimension (mm)						Coolant hole	Insert
		DC	DCONMS	LF	OAL	THSZMS	APMX		
6N TE90-320-M10-04	3	20	18	35	55	M10	4.1	●	6NKU 0403… E233
525-M12-04	5	25	21	35	57	M12	4.1	●	
632-M16-04	6	32	29	43	68	M16	4.1	●	
6N TE90-225-M12-06	2	25	21	35	57	M12	6.2	●	6NGU 0604... E232
332-M16-06	3	32	29	43	68	M16	6.2	●	
440-M16-06	4	40	29	43	68	M16	6.2	●	
6N TE90-232-M16-09	2	32	29	43	68	M16	9.2	●	6NGU 0905... E232
340-M16-09	3	40	29	43	68	M16	9.2	●	
440-M16-09	4	40	29	43	68	M16	9.2	●	

• Matched with T-FLEXTEC holder

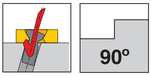
Spare parts

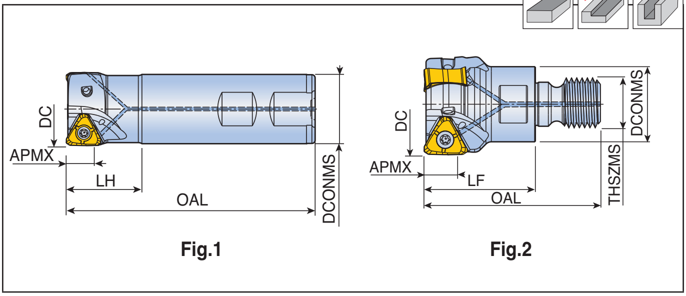
Designation	Screw	Wrench			
6N TE90-04	TS 25064I	TD 8			
6N TE90-06	TS 30085I/HG	TD 9			
6N TE90-09	TS 40B100I	TD15			

Cutting Condition
E287-E289

SCRM90TN-18/SCRM90TN-M-18

End Mills & Modular heads





Designation		Dimension (mm)							Coolant hole	Fig.	Insert
		DC	DCONMS	OAL	LH	LF	THSZMS	APMX			
SCRM90TN 235-W32-18	2	35	32	115	35	-	-	13.0	●	1	TNMX 1806... E277
340-W32-18	3	40	32	115	35	-	-	13.0	●	1	
SCRM90TN 235-M16-18	2	35	29	68	-	43	M16	13.0	●	2	
340-M16-18	3	40	29	68	-	43	M16	13.0	●	2	

• Matched with T-FLEXTEC holder

Spare parts

Designation	Screw	Wrench			
SCRM90TN-18	TS 40B100I	T-T15			

Cutting Condition
E287-E289

MTE90AX-06-L

CHASEMILL

End mills

90°

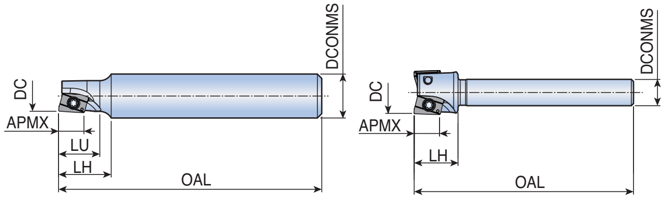


Fig.1 Fig.2

Designation		Dimension (mm)						Fig.	Insert
		DC	DCONMS	OAL	LU	LH	APMX		
MTE90AX 108-10-06-L60	1	8	10	60	9	12	5.5	1	AXCT 06-L... E241
210-05-06-L40	2	10	5	40	-	10	5.5	2	
210-06-06-L50	2	10	6	50	-	10	5.5	2	
210-07-06-L50	2	10	7	50	-	10	5.5	2	
210-10-06-L50	2	10	10	50	10	12	5.5	1	
212-10-06-L50	2	12	10	50	-	10	5.5	2	
214-10-06-L50	2	14	10	50	-	10	5.5	2	
315-05-06-L40	3	15	5	40	-	10	5.5	2	
316-07-06-L50	3	16	7	50	-	10	5.5	2	
316-10-06-L50	3	16	10	50	-	10	5.5	2	
320-07-06-L50	3	20	7	50	-	10	5.5	2	
320-10-06-L50	3	20	10	50	-	10	5.5	2	
530-10-06-L50	5	30	10	50	-	10	5.5	2	

Spare parts

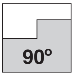
Designation	Screw	Wrench			
MTE90AX-06-L	TS 18041I/HG	TD 6P			

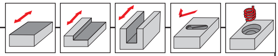
Cutting Condition E287-E289

TE90AX-06

CHASEMILL

End mills





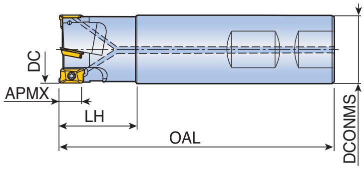


Fig.1

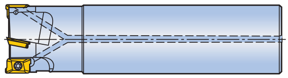


Fig.2

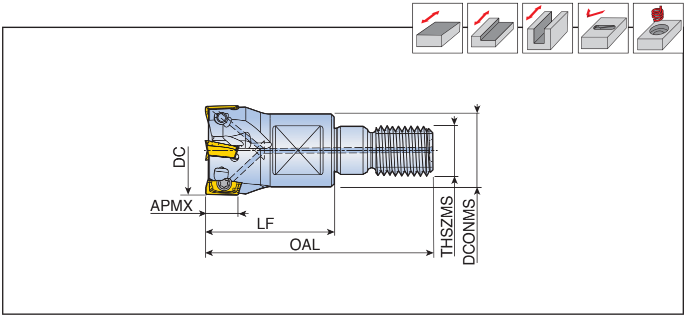
Designation		No. of teeth	Dimension (mm) DC	DCONMS	OAL	LH	APMX	Coolant hole	Fig.	Insert
TE90AX	108-08-06-C	1	8	8	80	17	5.5	●	2	AXM(C)T 0602 ... E241-E242
	210-09-06-L120	2	10	9	120	17	5.5	x	2	
	210-10-06	2	10	10	80	17	5.5	x	2	
	210-10-06-C	2	10	10	80	17	5.5	●	2	
	211-10-06	2	11	10	80	17	5.5	x	2	
	212-12-06	2	12	12	80	18	5.5	x	2	
	212-12-06-C	2	12	12	80	18	5.5	●	2	
	212-12-06-L	2	12	12	130	18	5.5	x	2	
	212-11-06-L120	2	12	11	120	20	5.5	x	2	
	312-12-06	3	12	12	80	18	5.5	x	2	
	312-12-06-C	3	12	12	80	18	5.5	●	2	
	313-12-06-C	3	13	12	90	20	5.5	●	2	
	314-12-06	3	14	12	80	18	5.5	x	2	
	415-12-06	4	15	12	80	18	5.5	x	2	
	316-16-06	3	16	16	110	20	5.5	x	2	
	316-16-06-C	3	16	16	110	20	5.5	●	2	
	316-16-06-L	3	16	16	150	20	5.5	x	2	
	416-W16-06	4	16	16	90	20	5.5	x	1	
	416-W16-06-C	4	16	16	90	20	5.5	●	1	
	417-16-06	4	17	16	90	20	5.5	x	2	
	418-W16-06	4	18	16	90	20	5.5	x	1	
	418-W16-06-C	4	18	16	90	20	5.5	●	1	
	418-16-06-L	4	18	16	150	20	5.5	x	2	
	419-W16-06	4	19	16	90	20	5.5	x	1	
	420-20-06	4	20	20	160	25	5.5	x	2	
	420-W20-06-C	4	20	20	160	25	5.5	●	1	
	520-19-06-L	5	20	19	160	25	5.5	x	1	
	520-W20-06	5	20	20	105	25	5.5	x	1	
	520-W20-06-C	5	20	20	105	25	5.5	●	1	
	521-20-06	5	21	20	105	25	5.5	x	2	
	725-W20-06	7	25	20	115	25	5.5	x	1	
	725-W20-06-C	7	25	20	115	25	5.5	●	1	
	725-W25-06	7	25	25	120	30	5.5	x	1	
	832-W25-06	8	32	25	130	32	5.5	x	1	
	832-W25-06-C	8	32	25	130	32	5.5	●	1	
	1040-W32-06	10	40	32	140	40	5.5	x	1	
	1040-W32-06-C	10	40	32	140	40	5.5	●	1	

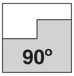
Cutting Condition E287-E289
Ramping Data E332-E338

TE90AX-M-06

CHASEMILL

Modular heads

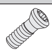




Designation		Dimension (mm)						Coolant hole	Insert
		DC	DCONMS	LF	OAL	THSZMS	APMX		
TE90AX 210-M06-06	2	10	9.7	23	37.5	M06	5.5	●	AXM(C)T 0602... E241-E242
312-M06-06	3	12	9.7	23	37.5	M06	5.5	●	
416-M08-06	4	16	13	23	40.5	M08	5.5	●	
520-M10-06	5	20	18	30	50	M10	5.5	●	
725-M12-06	7	25	21	35	57	M12	5.5	●	
832-M16-06	8	32	29	43	68	M16	5.5	●	
1040-M16-06	10	40	29	43	68	M16	5.5	●	

- Matched with T-FLEXTEC holder
- Cutter body for 'AXMT 06' insert with corner radius more than 1.0mm should be modified accordingly
  body "RE"=Insert "RE"-0.1mm

Spare parts

Designation	Screw	Wrench			
					
TE90AX-06	TS 18041I/HG	TD 6P			

Cutting Condition E287-E289

Ramping Data E332-E338

ADVANCE MACHINING TaeguTec Industry 4.0

2S-TE90AP-09

End mills

90°

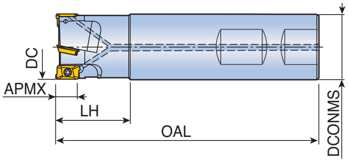


Fig.1

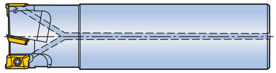


Fig.2

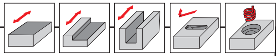
Designation		Dimension (mm) DC	DCONMS	OAL	LH	APMX	Coolant hole	Fig.	Insert
2S-TE90AP 110-W10-09	1	10	10	80	23.5	8.8	x	1	APK(C)T 09T3...
110-W10-09-C	1	10	10	80	23.5	8.8	●	1	E236,E241
112-W12-09	1	12	12	80	23.0	8.8	x	1	
112-W16-09-C	1	12	16	80	21.7	8.8	●	1	
114-W12-09	1	14	12	80	25.0	8.8	x	1	
216-15-09-L	2	16	15	170	30.0	8.8	x	2	
216-W16-09	2	16	16	90	22.1	8.8	x	1	
216-W16-09-C	2	16	16	90	22.1	8.8	●	1	
216-16-09-L	2	16	16	145	27.1	8.8	x	2	
217-16-09-L	2	17	16	180	25.0	8.8	x	2	
218-W16-09	2	18	16	90	25.0	8.8	x	1	
218-W16-09-C	2	18	16	90	25.0	8.8	●	1	
220-19-09-L	2	20	19	170	25.0	8.8	x	2	
220-20-09-L	2	20	20	170	37.1	8.8	x	2	
320-W20-09	3	20	20	110	27.1	8.8	x	1	
320-W20-09-C	3	20	20	110	27.1	8.8	●	1	
221-20-09-L	2	21	20	200	25.0	8.8	x	2	
322-W20-09	3	22	20	110	30.0	8.8	x	1	
322-W20-09-C	3	22	20	110	30.0	8.8	●	1	
225-24-09-L	2	25	24	210	28.0	8.8	x	2	
225-25-09-L	2	25	25	210	37.1	8.8	x	2	
325-W20-09	3	25	20	110	30.0	8.8	x	1	
325-W20-09-C	3	25	20	110	30.0	8.8	●	1	
325-W25-09	3	25	25	110	26.6	8.8	x	1	
425-W20-09-C	4	25	20	110	30.0	8.8	●	1	
226-25-09-L	2	26	25	250	28.0	8.8	x	2	
430-W25-09	4	30	25	130	32.0	8.8	x	1	
430-W25-09-C	4	30	25	130	30.0	8.8	●	1	
232-32-09-L	2	32	32	250	62.0	8.8	x	2	
432-W25-09	4	32	25	130	32.0	8.8	x	1	
432-W25-09-C	4	32	25	130	32.0	8.8	●	1	
532-W25-09-C	5	32	25	130	32.0	8.8	●	1	
333-32-09-L	3	33	32	250	40.0	8.8	x	2	
240-32-09-L	2	40	32	250	32.0	8.8	x	2	
540-W32-09	5	40	32	130	32.0	8.8	x	1	
540-W32-09-C	5	40	32	130	32.0	8.8	●	1	
640-W32-09	6	40	32	130	32.0	8.8	x	1	

Cutting Condition E287-E289

Ramping Data E332-E338

2S-TE90AP-M-09

Modular heads



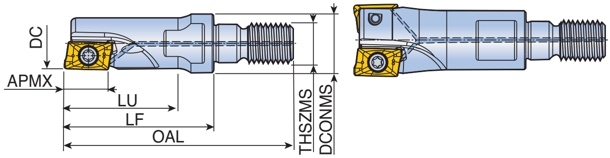
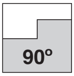


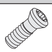
Fig.1 Fig.2



Designation	(No. of teeth)	Dimension (mm) DC	DCONMS	LF	OAL	LU	THSZMS	APMX	Coolant hole	Fig.	Insert
2S-TE90AP 110-M06-09	1	10	9.7	33	47.5	19	M06	8.8	●	1	APK(C)T 09T3...
112-M08-09	1	12	13	33	50.5	25	M08	8.8	●	1	E236,E241
216-M08-09	2	16	13	38	50.5	-	M08	8.8	●	2	
320-M10-09	3	20	18	38	58	-	M10	8.8	●	2	
325-M12-09	3	25	21	38	60	-	M12	8.8	●	2	
425-M12-09	4	25	21	38	60	-	M12	8.8	●	2	
432-M16-09	4	32	29	38	63	-	M16	8.8	●	2	
532-M16-09	5	32	29	38	63	-	M16	8.8	●	2	
540-M16-09	5	40	29	43	68	-	M16	8.8	●	2	
640-M16-09	6	40	29	43	68	-	M16	8.8	●	2	

- Matched with T-FLEXTEC holder
- Cutter body for 'APKT09' insert with corner radius more than 2.4mm should be modified accordingly
  body “RE”=Insert “RE”-0.2mm

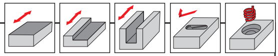
Spare parts

Designation	Screw 	Wrench 			
2S-TE90AP-09	TS 25055I/HG	TD 8			

Cutting Condition E287-E289
Ramping Data E332-E338

TE90AP-12

End mills



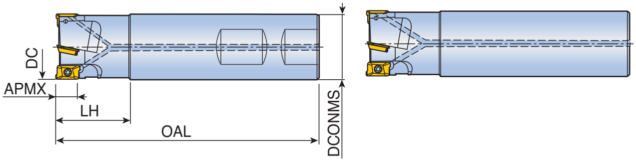


Fig.1

Fig.2

90°

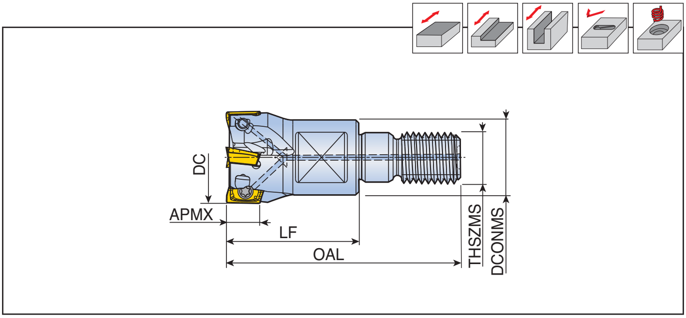
Designation	Z	Dimension (mm) DC	DCONMS	OAL	LH	APMX	Coolant hole	Fig.	Insert
TE90AP 116-W16-12-C	1	16	16	85	26	12.0	●	1	APK(C)T 1204....
218-W20-12-C	2	18	20	85	26	12.0	●	1	E237-E238,E241
220-19-12-L	2	20	19	170	30	12.0	●	2	
220-W20-12-C	2	20	20	90	30	12.0	●	1	
220-W20-12-L-C	2	20	20	125	30	12.0	●	1	
220-20-12-L	2	20	20	170	30	12.0	●	2	
220-20-12-L200	2	20	20	200	30	12.0	●	2	
221-20-12-L200	2	21	20	200	30	12.0	●	2	
221-20-12-L250	2	21	20	250	30	12.0	●	2	
225-24-12-L	2	25	24	200	40	12.0	●	2	
225-W25-12-L-C	2	25	25	145	40	12.0	●	1	
225-25-12-L	2	25	25	210	40	12.0	●	2	
225-25-12-L200	2	25	25	200	40	12.0	●	2	
325-W25-12-C	3	25	25	100	40	12.0	●	1	
226-25-12-L200	2	26	25	200	40	12.0	●	2	
226-25-12-L250	2	26	25	250	40	12.0	●	2	
232-25-12-L	2	32	25	250	40	12.0	●	2	
332-W25-12-L-C	3	32	25	155	35	12.0	●	1	
332-W32-12-C	3	32	32	110	40	12.0	●	1	
332-32-12-L	3	32	32	250	40	12.0	●	2	
332-32-12-L150	3	32	32	150	40	12.0	●	2	
432-W25-12-C	4	32	25	100	40	12.0	●	1	
233-32-12-L200	2	33	32	200	40	12.0	●	2	
233-32-12-L250	2	33	32	250	40	12.0	●	2	
333-32-12-L200	3	33	32	200	40	12.0	●	2	
333-32-12-L250	3	33	32	250	40	12.0	●	2	
435-W25-12	4	35	25	100	40	12.0	●	1	
440-W32-12-C	4	40	32	115	45	12.0	●	1	
440-32-12-L	4	40	32	250	40	12.0	●	2	
540-W32-12-C	5	40	32	115	45	12.0	●	1	

Cutting Condition E287-E289
Ramping Data E332-E338

TE90AP-M-12

Modular heads

90°



Designation		Dimension (mm)						Coolant hole	Insert
		DC	DCONMS	LF	OAL	THSZMS	APMX		
TE90AP 116-M08-12	1	16	13	35	52.5	M08	12.0	●	APK(C)T 1204... E237-E238,E241
220-M10-12	2	20	18	35	55	M10	12.0	●	
325-M12-12	3	25	21	35	57	M12	12.0	●	
432-M16-12	4	32	29	43	68	M16	12.0	●	
540-M16-12	5	40	29	43	68	M16	12.0	●	
542-M16-12	5	42	29	43	68	M16	12.0	●	

- Matched with T-FLEXTEC holder
- Cutter body for 'APKT 12' insert with with corner radius more than 1.6mm should be modified accordingly body "RE"=Insert "RE"-0.5mm

Spare parts

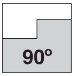
Designation	Screw	Wrench			
TE90AP-12 (Ø16-Ø26)	TS 35A070I/HG	TD 10P			
TE90AP-12 (Ø32-)	TS 35A088I/HG	TD 10P			

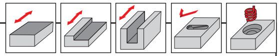
Cutting Condition E287-E289

Ramping Data E332-E338

TE90AP-17

End mills





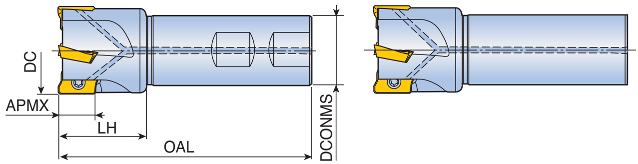


Fig.1

Fig.2

Designation		Cutting edges	Dimension (mm) DC	DCONMS	OAL	LH	APMX	Coolant hole	Fig.	Insert
TE90AP	120-W20-17	1	20	20	90	32	16.1	x	1	APK(C)T 1705/1706... E238-E239
	120-W20-17-C	1	20	20	90	32	16.1	●	1	
	225-24-17-L	2	25	24	210	40	16.1	x	2	
	225-W25-17	2	25	25	100	39	16.1	x	1	
	225-W25-17-C	2	25	25	100	39	16.1	●	1	
	225-25-17-L	2	25	25	210	40	16.1	x	2	
	226-25-17-L200	2	26	25	200	40	16.1	●	2	
	226-25-17-L250	2	26	25	250	40	16.1	●	2	
	232-32-17-L	2	32	32	250	65	16.1	x	2	
	233-32-17-L250	2	33	32	250	40	16.1	●	2	
	233-32-17-L300	2	33	32	300	40	16.1	●	2	
	332-W32-17	3	32	32	110	40	16.1	x	1	
	332-W32-17-C	3	32	32	110	40	16.1	●	1	
	332-32-17-L	3	32	32	200	65	16.1	x	2	
	333-32-17-L200	3	33	32	200	55	16.1	●	2	
	333-32-17-L250	3	33	32	250	55	16.1	●	2	
	240-32-17-L	2	40	32	250	54	16.1	x	2	
	340-W32-17	3	40	32	110	40	16.1	x	1	
	340-32-17-L	3	40	32	200	54	16.1	x	2	
	440-W32-17	4	40	32	115	45	16.1	x	1	
	440-W32-17-C	4	40	32	115	45	16.1	●	1	
	440-32-17-L	4	40	32	200	57	16.1	x	2	

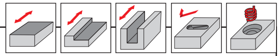
Cutting Condition E287-E289

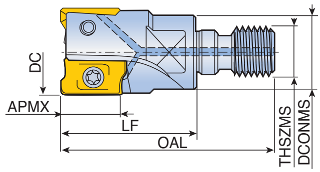
Ramping Data E332-E338

TE90AP-M-17

Modular heads

90°

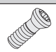




Designation		Dimension (mm)						Coolant hole	Insert
		DC	DCONMS	LF	OAL	THSZMS	APMX		
TE90AP 120-M10-17	1	20	18	43	63	M10	16.1	●	APK(C)T 1705/1706... E238-E239
225-M12-17	2	25	21	43	65	M12	16.1	●	
232-M16-17	2	32	29	43	68	M16	16.1	●	
332-M16-17	3	32	29	43	68	M16	16.1	●	
340-M16-17	3	40	29	43	68	M16	16.1	●	
440-M16-17	4	40	29	43	68	M16	16.1	●	

- Matched with T-FLEXTEC holder
- Cutter body for 'APKT 17' insert with corner radius more than 1.6mm should be modified accordingly body "RE"=Insert "RE"-0.8mm

Spare parts

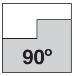
Designation	Screw 	Wrench 			
TE90AP-17 (Ø20-Ø25)	TS 40085I/HG	TD 15			
TE90AP-17 (Ø26-Ø63)	TS 40093I/HG	TD 15			

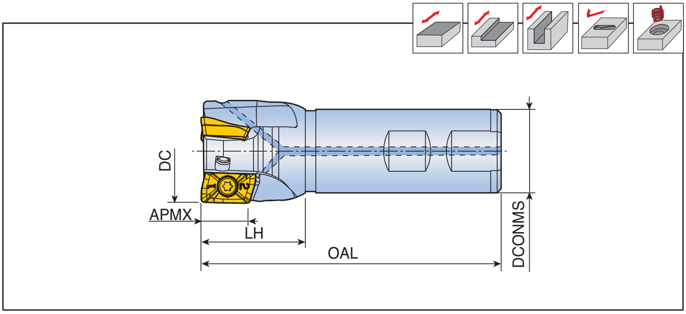
Cutting Condition E287-E289

Ramping Data E332-E338

2S-TE90AP-19

End mills





Designation	(Number of inserts)	Dimension (mm)					Coolant hole	Insert
		DC	DCONMS	OAL	LH	APMX		
2S-TE90AP 340-W32-19	3	40	32	115	40	17.9	●	APKT 1907...
								E240

Spare parts

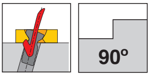
Designation	Screw	Wrench			
2S-TE90AP-19	TS 50115I	TD 20			

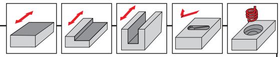
Cutting Condition E287-E289

Ramping Data E332-E338

2P-TE90-05

End mills





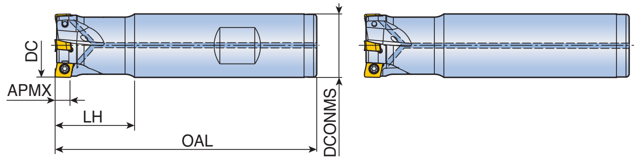
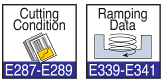


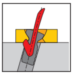
Fig.1 Fig.2

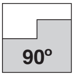
Designation		Dimension (mm)					Coolant hole	Fig.	Insert
		DC	DCONMS	OAL	LH	APMX			
2P-TE90- 212-12-05	2	12	12	80	20	4.7	●	2	2PKT 0503... E225
212-12-05-L110	2	12	12	110	20	4.7	●	2	
213-12-05	2	13	12	80	20	4.7	●	2	
213-12-05-L110	2	13	12	110	20	4.7	●	2	
214-13-05-L110	2	14	13	110	20	4.7	●	2	
216-16-05-L150	2	16	16	150	25	4.7	●	2	
316-W16-05	3	16	16	90	25	4.7	●	1	
316-16-05-L110	3	16	16	110	25	4.7	●	2	
317-16-05-L110	3	17	16	110	25	4.7	●	2	
317-16-05-L150	3	17	16	150	25	4.7	●	2	
318-16-05-L110	3	18	16	110	25	4.7	●	2	
318-16-05-L150	3	18	16	150	25	4.7	●	2	
320-W20-05	3	20	20	105	25	4.7	●	1	
420-W20-05	4	20	20	105	25	4.7	●	1	
420-W20-05-L160	4	20	20	160	25	4.7	●	1	
421-W20-05	4	21	20	105	25	4.7	●	1	
421-20-05-L160	4	21	20	160	25	4.7	●	2	
421-20-05-L200	4	21	20	200	25	4.7	●	2	
425-W20-05	4	25	20	115	25	4.7	●	1	
425-20-05-L200	4	25	20	200	25	4.7	●	2	
525-W20-05	5	25	20	115	25	4.7	●	1	
525-25-05-L160	5	25	25	160	25	4.7	●	2	
525-25-05-L200	5	25	25	200	25	4.7	●	2	
625-W25-05	6	25	25	115	25	4.7	●	1	
526-25-05-L200	5	26	25	200	25	4.7	●	2	
626-25-05-L160	6	26	25	160	25	4.7	●	2	
632-W25-05	6	32	25	130	30	4.7	●	1	
632-25-05-L200	6	32	25	200	30	4.7	●	2	
732-W25-05	7	32	25	130	30	4.7	●	1	
633-25-05-L200	6	33	25	200	30	4.7	●	2	



2P-TE90-07

End mills





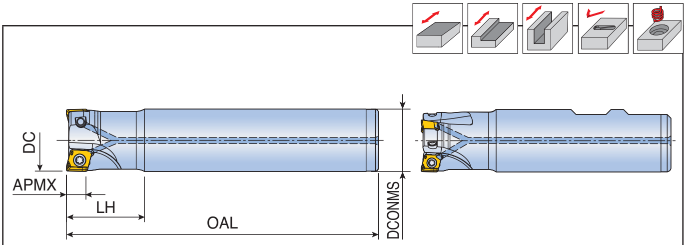


Fig.1

Fig.2

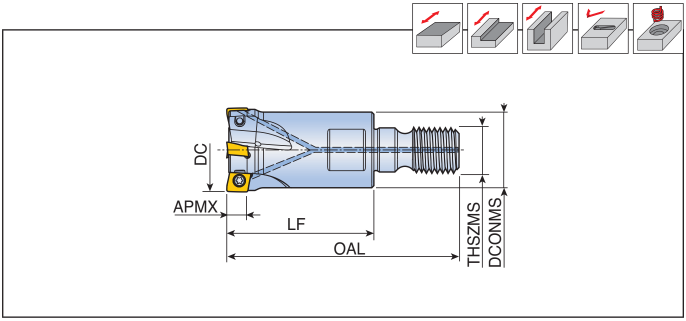
Designation		Dimension (mm)					Coolant hole	Fig.	Insert
		DC	DCONMS	OAL	LH	APMX			
2P-TE90- 216-W16-07	2	16	16	90	25	6.0	●	1	2PKT 0704... E225
216-16-07-L	2	16	16	145	25	6.0	●	2	
220-20-07-L	2	20	20	170	40	6.0	●	2	
320-W20-07	3	20	20	90	25	6.0	●	1	
325-W20-07	3	25	20	100	25	6.0	●	1	
325-W25-07	3	25	25	100	30	6.0	●	1	
425-W25-07	4	25	25	100	30	6.0	●	1	
332-W32-07	3	32	32	110	40	6.0	●	1	
432-W25-07	4	32	25	110	30	6.0	●	1	
540-W32-07	5	40	32	110	30	6.0	●	1	

Cutting Condition E287-E289
Ramping Data E339-E341

2P-TE90-M-05/07

Modular heads

90°



Designation		Number of inserts	DC	DCONMS	LF	OAL	THSZMS	APMX	Coolant hole	Insert
			Dimension (mm)							
2P-TE90-	**212-M06-05**	2	12	9.7	23	37.5	M06	4.7	●	2PKT 0503... E225
	213-M06-05	2	13	11	23	37.5	M06	4.7	●	
	316-M08-05	3	16	13	23	40.5	M08	4.7	●	
	317-M08-05	3	17	13	23	40.5	M08	4.7	●	
	318-M08-05	3	18	13	23	40.5	M08	4.7	●	
	420-M10-05	4	20	18	35	55	M10	4.7	●	
	421-M12-05	4	21	21	35	57	M12	4.7	●	
	525-M12-05	5	25	21	35	57	M12	4.7	●	
	625-M12-05	6	25	21	35	57	M12	4.7	●	
	626-M12-05	6	26	21	35	57	M12	4.7	●	
	732-M16-05	7	32	29	43	68	M16	4.7	●	
	733-M16-05	7	33	29	43	68	M16	4.7	●	
2P-TE90-	**216-M08-07**	2	16	13	23	40.5	M08	6.0	●	2PKT 0704... E225
	320-M10-07	3	20	18	30	50	M10	6.0	●	
	425-M12-07	4	25	21	35	57	M12	6.0	●	
	532-M16-07	5	32	29	43	68	M16	6.0	●	
	640-M16-07	6	40	29	43	68	M16	6.0	●	

• Matched with T-FLEXTEC holder

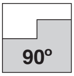
Spare parts

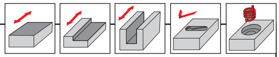
Designation	Screw	Wrench		Wrench handle	
2P-TE90-05	TS 20043I/HG-P	TD 6P	-	-	
2P-TE90-07	TS 30B068I/HG	-	TBLD T08-W4	THND 4W	

Cutting Condition E287-E289
Ramping Data E339-E341

CHASE2MILL

End mills





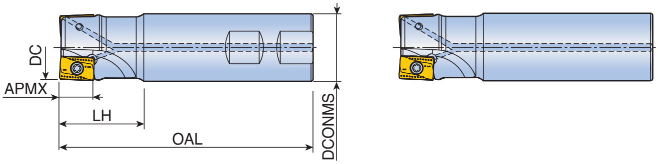


Fig.1

Fig.2

Designation		Dimension (mm)					Coolant hole	Fig.	Insert
		DC	DCONMS	OAL	LH	APMX			
TE90AN 225-24-11-L	2	25	24	200	40	11.0	●	2	ANM(H)X 1106... E235
225-W25-11	2	25	25	100	40	11.0	●	1	
225-25-11-L	2	25	25	200	40	11.0	●	2	
226-25-11-L	2	26	25	200	40	11.0	●	2	
332-W32-11	3	32	32	110	40	11.0	●	1	
332-32-11-L	3	32	32	200	40	11.0	●	2	
233-32-11-L	2	33	32	250	40	11.0	●	2	
333-32-11-L	3	33	32	200	40	11.0	●	2	
340-32-11-L	3	40	32	250	40	11.0	●	2	
440-W32-11	4	40	32	115	40	11.0	●	1	
440-32-11-L	4	40	32	200	40	11.0	●	2	
TE90AN 232-W32-16	2	32	32	110	30	15.0	●	1	ANM(H)X 1607... E235
232-32-16	2	32	32	150	45	15.0	●	2	
232-32-16-L250	2	32	32	250	40	15.0	●	2	
233-32-16-L200	2	33	32	200	55	15.0	●	2	
340-W32-16	3	40	32	115	35	15.0	●	1	
340-32-16	3	40	32	150	45	15.0	●	2	
340-32-16-L250	3	40	32	250	45	15.0	●	2	
450-32-16	4	50	32	150	50	15.0	●	2	

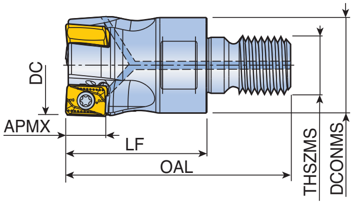
Cutting Condition E287-E289

Ramping Data E342

TE90AN-M-11/16

Modular heads

90°



Designation		Dimension (mm)						Coolant hole	Insert
		DC	DCONMS	LF	OAL	THSZMS	APMX		
TE90AN 225-M12-11	2	25	21	35	57	M12	11.0	●	ANM(H)X 1106... E235
332-M16-11	3	32	29	43	68	M16	11.0	●	
440-M16-11	4	40	29	43	68	M16	11.0	●	
TE90AN 232-M16-16	2	32	29	43	68	M16	15.0	●	ANM(H)X 1607... E235
340-M16-16	3	40	29	43	68	M16	15.0	●	

• Matched with T-FLEXTEC holder

Spare parts

Designation	Screw	Wrench			
TE90AN-11	TS 35A088I/HG	TD 10P			
TE90AN-16	TS 40120I	TD 15			

Cutting Condition E287-E289
Ramping Data E342

4N TE90-04

End mills

90°

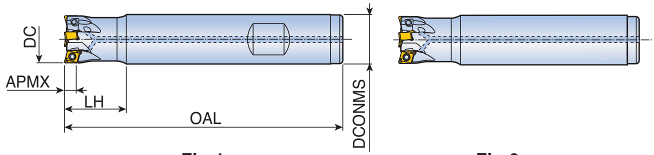


Fig.1

Fig.2

Designation	Number of inserts	Dimension (mm)					Coolant hole	Fig.	Insert
		DC	DCONMS	OAL	LH	APMX			
4N TE90-108-08-04	1	8	8	80	17	3.5	●	2	4NKT 0402... E290-E230
210-10-04	2	10	10	80	17	3.5	●	2	
211-10-04	2	11	10	80	17	3.5	●	2	
212-12-04	2	12	12	80	18	3.5	●	2	
312-12-04	3	12	12	80	18	3.5	●	2	
313-12-04	3	13	12	90	20	3.5	●	2	
316-16-04	3	16	16	90	20	3.5	●	2	
416-W16-04	4	16	16	90	20	3.5	●	1	
420-20-04-L	4	20	20	160	25	3.5	●	2	
520-W20-04	5	20	20	105	25	3.5	●	1	
725-W25-04	7	25	25	120	30	3.5	●	1	
832-W25-04	8	32	25	130	35	3.5	●	1	
1040-W32-04	10	40	32	140	40	3.5	●	1	

Cutting Condition E287-E289

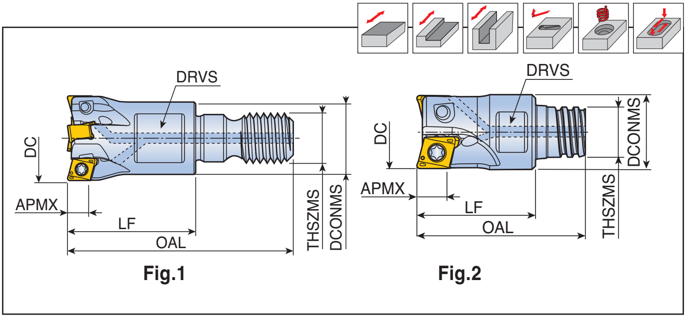
Ramping Data E311-E331

• Cutter body for '4NKT 040212R-HF' insert should be modified with body corner radius 1.2 mm

4N TE90-M(S)-04

Modular heads

90°



Designation		Dimension (mm)							Coolant hole	Fig.	Insert
		DC	DCONMS	LF	OAL	THSZMS	APMX	DRVS			
4N TE90- 210-M06-04	2	10	9.7	17	31.5	M06	3.5	8	●	1	4NKT 0402... E229-E230
211-M06-04	2	11	9.7	17	31.5	M06	3.5	8	●	1	
312-M06-04	3	12	11	17	31.5	M06	3.5	8	●	1	
313-M06-04	3	13	11	17	31.5	M06	3.5	8	●	1	
416-M08-04	4	16	13	23	40.5	M08	3.5	10	●	1	
520-M10-04	5	20	18	23	43	M10	3.5	15	●	1	
725-M12-04	7	25	21	27	49	M12	3.5	17	●	1	
4N TE90- 210-S06-04	2	10	9.6	15	21.3	S06	3.5	8	●	2	
312-S08-04	3	12	11.5	16	23.5	S08	3.5	10	●	2	
416-S10-04	4	16	15.2	20	31.3	S10	3.5	13	●	2	

• Cutter body for '4NKT 040212R-HF' insert should be modified with body corner radius 1.2 mm
• Matched with T-FLEXTEC holder & MAXI-RUSH holder

Spare parts

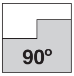
Designation	Screw	Wrench			
4N TE90-04	TS 18041I/HG	TD 6P			

Cutting Condition E287-E289

Ramping Data E311-E331

4N TE90-06

End mills



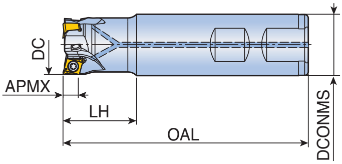


Fig.1

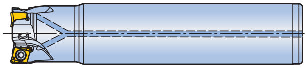


Fig.2

Designation	Teeth	Dimension (mm)					Coolant hole	Fig.	Insert
		DC	DCONMS	OAL	LH	APMX			
4N TE90-216-15-06-L150	2	16	15	150	25	6.0	●	2	4NK(H)T 0603...... E229-E230
216-W16-06	2	16	16	90	25	6.0	●	1	
216-16-06-L100	2	16	16	100	25	6.0	●	2	
216-16-06-L150	2	16	16	150	25	6.0	●	2	
217-16-06	2	17	16	90	25	6.0	●	2	
217-16-06-L200	2	17	16	200	25	6.0	●	2	
218-W16-06	2	18	16	90	25	6.0	●	1	
218-16-06-L150	2	18	16	150	25	6.0	●	2	
220-19-06-L160	2	20	19	160	25	6.0	●	2	
220-W20-06	2	20	20	90	25	6.0	●	1	
220-20-06-L110	2	20	20	110	25	6.0	●	2	
220-20-06-L160	2	20	20	160	25	6.0	●	2	
320-W20-06	3	20	20	90	25	6.0	●	1	
320-20-06-L110	3	20	20	110	25	6.0	●	2	
221-20-06-L200	2	21	20	200	25	6.0	●	2	
325-W25-06	3	25	25	100	30	6.0	●	1	
325-25-06-L120	3	25	25	120	30	6.0	●	2	
325-25-06-L200	3	25	25	200	30	6.0	●	2	
326-25-06-L200	3	26	25	200	30	6.0	●	2	
425-W25-06	4	25	25	100	30	6.0	●	1	
425-25-06-L120	4	25	25	120	30	6.0	●	2	
432-W32-06	4	32	32	110	35	6.0	●	1	
432-32-06-L130	4	32	32	130	35	6.0	●	2	
432-32-06-L210	4	32	32	210	35	6.0	●	2	
433-32-06-L220	4	33	32	220	35	6.0	●	2	
532-W32-06	5	32	32	110	35	6.0	●	1	
532-32-06-L130	5	32	32	130	35	6.0	●	2	
540-W32-06	5	40	32	110	40	6.0	●	1	
540-32-06-L150	5	40	32	150	40	6.0	●	2	
540-32-06-L250	5	40	32	250	40	6.0	●	2	
640-W32-06	6	40	32	110	35	6.0	●	1	
640-32-06-L150	6	40	32	150	35	6.0	●	2	

Cutting Condition E287-E289

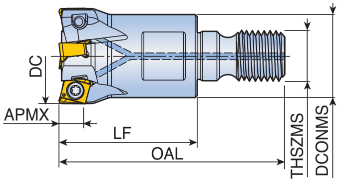
Ramping Data E311-E331

• Cutter body for '4NKT 060320R-HF' insert should be modified with body corner radius 2.0 mm

4N TE90-M-06

Modular heads

90°



Designation	Z	DC	DCONMS	LF	OAL	THSZMS	APMX	Coolant hole	Insert
		Dimension (mm)							
4N TE90-216-M08-06	2	16	13	23	40.5	M08	6.0	●	4NK(H)T 0603... E229-E230
217-M08-06	2	17	13	23	40.5	M08	6.0	●	
220-M10-06	2	20	18	35	55	M10	6.0	●	
320-M10-06	3	20	18	35	55	M10	6.0	●	
321-M10-06	3	21	18	35	55	M10	6.0	●	
325-M12-06	3	25	21	35	57	M12	6.0	●	
425-M12-06	4	25	21	35	57	M12	6.0	●	
426-M12-06	4	26	21	35	57	M12	6.0	●	
432-M16-06	4	32	29	43	68	M16	6.0	●	
532-M16-06	5	32	29	43	68	M16	6.0	●	
533-M16-06	5	33	29	43	68	M16	6.0	●	
535-M16-06	5	35	29	43	68	M16	6.0	●	
540-M16-06	5	40	29	43	68	M16	6.0	●	
640-M16-06	6	40	29	43	68	M16	6.0	●	

- Cutter body for '4NKT 060320R-HF' insert should be modified with body corner radius 2.0 mm
- Matched with T-FLEXTEC holder

Spare parts

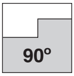
Designation	Screw	Wrench			
4N TE90-06	TS 30B068I/HG	TD 8			

Cutting Condition E287-E289
Ramping Data E311-E331

4N TE90-09/11/14

CHASE4MILL

End mills



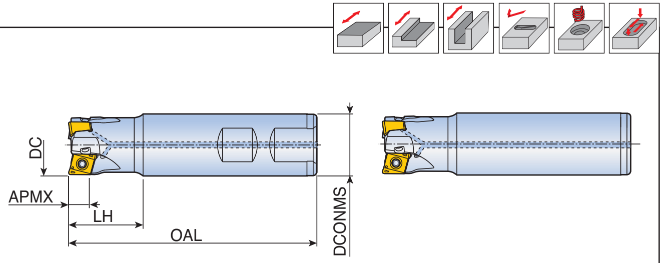


Fig.1 Fig.2

Designation	No. of teeth	DC	DCONMS	OAL	LH	APMX	Coolant hole	Fig.	Insert
		Dimension (mm)							
4N TE90-220-W20-09	2	20	20	100	30	8.0	●	1	4NK(H)T 0904.. E229-E230
220-20-09-L170	2	20	20	170	30	8.0	●	2	
225-W25-09	2	25	25	100	30	8.0	●	1	
225-25-09-L200	2	25	25	200	40	8.0	●	2	
325-W25-09	3	25	25	100	30	8.0	●	1	
325-25-09-L210	3	25	25	210	30	8.0	●	2	
332-W32-09	3	32	32	110	40	8.0	●	1	
332-32-09-L250	3	32	32	250	40	8.0	●	2	
432-W25-09	4	32	25	130	35	8.0	●	1	
432-25-09-L200	4	32	25	200	40	8.0	●	2	
432-W32-09	4	32	32	110	40	8.0	●	1	
440-W32-09	4	40	32	115	40	8.0	●	1	
440-32-09-L250	4	40	32	250	40	8.0	●	2	
540-W32-09	5	40	32	115	40	8.0	●	1	
4N TE90-225-W25-11	2	25	25	100	30	10.5	●	1	4NKT 1106... E229-E230
225-25-11-L200	2	25	25	200	40	10.5	●	2	
332-W32-11	3	32	32	110	40	10.5	●	1	
440-W32-11	4	40	32	115	40	10.5	●	1	
440-32-11-L200	4	40	32	200	40	10.5	●	2	
4N TE90-232-W32-14	2	32	32	110	40	13.8	●	1	4NKT 1407... E229-E230
232-32-14	2	32	32	150	45	13.8	●	2	
232-32-14-L250	2	32	32	250	40	13.8	●	2	
340-W32-14	3	40	32	115	40	13.8	●	1	
340-32-14	3	40	32	115	40	13.8	●	2	

Cutting Condition E287-E289 | Ramping Data E311-E331

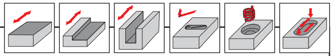
- Cutter body for '4NKT 090432R-HF' insert should be modified with body corner radius 3.2mm
- Cutter body for '4NKT 110640R-HF' insert should be modified with body corner radius 4.0 mm
- Cutter body for '4NKT 140750R-HF' insert should be modified with body corner radius 5.0 mm

TaeguTec Member IMC Group

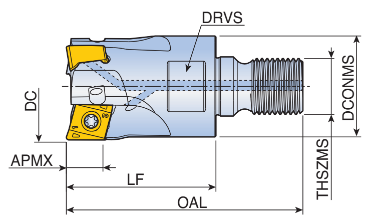
4N TE90-M-09/11/14

CHASE4MILL

Modular heads for T-FLEXTEC



90°



Designation		Dimension (mm)							Coolant hole	Insert
		DC	DCONMS	LF	OAL	THSZMS	APMX	DRVS		
4N TE90- 220-M10-09	2	20	18	30	50	M10	8.0	15	●	4NK(H)T 0904... E229-E230
325-M12-09	3	25	21	35	57	M12	8.0	17	●	
432-M16-09	4	32	29	43	68	M16	8.0	25	●	
540-M16-09	5	40	29	43	68	M16	8.0	25	●	
4N TE90- 225-M12-11	2	25	21	35	57	M12	10.5	17	●	4NKT 1106... E229-E230
332-M16-11	3	32	29	43	68	M16	10.5	25	●	
440-M16-11	4	40	29	43	68	M16	10.5	25	●	
4N TE90- 232-M16-14	2	32	29	43	68	M16	13.8	25	●	4NKT 1407... E229-E230
340-M16-14	3	40	29	43	68	M16	13.8	25	●	

- Cutter body for '4NKT 090432R-HF' insert should be modified with body corner radius 3.2 mm
- Cutter body for '4NKT 110640R-HF' insert should be modified with body corner radius 4.0 mm
- Cutter body for '4NKT 140750R-HF' insert should be modified with body corner radius 5.0 mm
- Matched with T-FLEXTEC holder

Spare parts

Designation	Screw	Wrench	Wrench handle		
4N TE90-09	TS 35A088I/HG	TBLD T10P-W6	THND 6W		
4N TE90-11	TS 40093I/HG	TBLD T15-W6	THND 6W		
4N TE90-14	TS 50A121I/HG	TBLD T20-W6	THND 6W		

Cutting Condition E287-E289

Ramping Data E311-E331

8D-TE90-07

End mills & Modular heads

90°

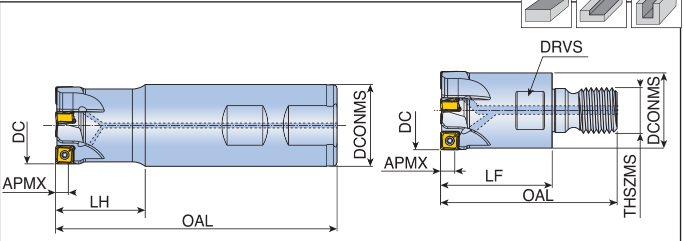


Fig.1 Fig.2

Designation		Teeth	Dimension (mm)								Coolant hole	Fig.	Insert
			DC	DCONMS	LF	LH	OAL	THSZMS	APMX	DRVS			
8D-TE90-	**216-W16-07**	2	16	16	-	20	90	-	5.0	-	●	1	SQKU 0703... E273
	220-W20-07	2	20	20	-	25	90	-	5.0	-	●	1	
	320-W20-07	3	20	20	-	25	90	-	5.0	-	●	1	
	325-W25-07	3	25	25	-	30	100	-	5.0	-	●	1	
	425-W25-07	4	25	25	-	30	100	-	5.0	-	●	1	
	432-W32-07	4	32	32	-	35	110	-	5.0	-	●	1	
	632-W32-07	6	32	32	-	35	110	-	5.0	-	●	1	
	540-W32-07	5	40	32	-	40	110	-	5.0	-	●	1	
	840-W32-07	8	40	32	-	40	110	-	5.0	-	●	1	
8D-TE90-	**216-M08-07**	2	16	14	23	-	40.5	M08	5.0	10	●	2	
	320-M10-07	3	20	18	30	-	50	M10	5.0	15	●	2	
	325-M12-07	3	25	22	35	-	57	M12	5.0	17	●	2	
	432-M16-07	4	32	29	43	-	68	M16	5.0	25	●	2	
	540-M16-07	5	40	29	43	-	68	M16	5.0	25	●	2	

• Matched with T-FLEXTEC holder

Spare parts

Designation	Screw	Wrench			
8D-TE90-07	TS 25D060/HG-P	TD 7P			

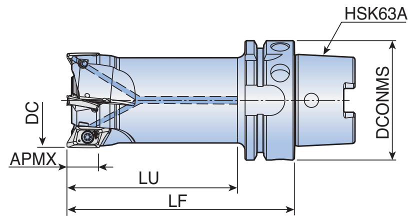
Cutting Condition

E287-E289

TE90XEV-HSK63A-16

CHASEALU

End mills for HSK toolholder



90°

Designation		Dimension (mm)					Coolant hole	Max RPM	Insert
		DC	DCONMS	LF	LU	APMX			
TE90XEV 225-100-HSK63A-16	2	25	63	100	70	16	●	52,000	XEVT 1605... E280
232-125-HSK63A-16	2	32	63	125	95	16	●	46,000	
332-90-HSK63A-16	3	32	63	90	60	16	●	46,000	
340-105-HSK63A-16	3	40	63	105	75	16	●	41,200	
450-105-HSK63A-16	4	50	63	105	75	16	●	36,800	
450-120-HSK63A-16	4	50	63	120	90	16	●	36,800	

- Cutter body for inserts with corner radii more than 3.2mm (XEVT 16) should be modified as follows: body "RE"=insert "RE"-0.3mm

Spare parts

Designation	Screw	Wrench			
TE90XEV-16 (-Ø25)	TS 40085I/HG	T-T15			
TE90XEV-16 (Ø32-)	TS 40093I/HG	T-T15			

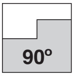
Cutting Condition E287-E289

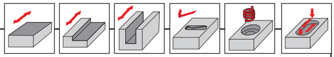
Ramping Data E343-E345

TE90XEV-16/22

CHASEALU

End mills & Modular heads





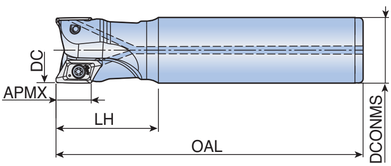


Fig.1

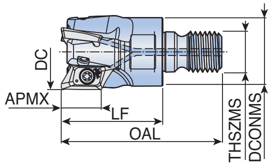


Fig.2

Designation		Teeth	Dimension (mm) DC	DCONMS	OAL	THSZMS	LF	LH	APMX	Coolant hole	Fig.	Max RPM	Insert
TE90XEV	225-25-16	2	25	25	125	-	-	55	16	●	1	52,000	XEVT 1605...
	225-25-16-L170	2	25	25	170	-	-	70	16	●	1	52,000	E280
	232-32-16	2	32	32	150	-	-	50	16	●	1	46,000	
	232-32-16-L200	2	32	32	200	-	-	80	16	●	1	46,000	
	332-32-16	3	32	32	150	-	-	50	16	●	1	46,000	
	332-32-16-L200	3	32	32	200	-	-	80	16	●	1	46,000	
	340-32-16	3	40	32	170	-	-	55	16	●	1	41,200	
	340-32-16-L250	3	40	32	250	-	-	55	16	●	1	41,200	
TE90XEV	225-M12-16	2	25	21	65	M12	43	-	16	●	2	52,000	
	232-M16-16	2	32	29	68	M16	43	-	16	●	2	46,000	
	332-M16-16	3	32	29	68	M16	43	-	16	●	2	46,000	
	340-M16-16	3	40	29	68	M16	43	-	16	●	2	41,200	
TE90XEV	232-32-22	2	32	32	160	-	-	100	21	●	1	37,500	XEVT 2206...
	340-40-22	3	40	40	160	-	-	80	21	●	1	35,100	E280

- Matched with T-FLEXTEC holder
- Cutter body for inserts with corner radii more than 3.2mm (XEVT 16) and 3.0mm (XEVT 22) should be modified as follows: body "RE"=insert "RE"-0.3mm

Spare parts

Designation	Screw	Wrench			
TE90XEV-16 (-Ø25)	TS 40085I/HG	T-T 15			
TE90XEV-16 (Ø32-)	TS 40093I/HG	T-T 15			
TE90XEV-22 (-Ø32)	TS 50105I	T-T 20			
TE90XEV-22 (Ø40-)	TS 50115I	T-T 20			

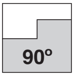
Cutting Condition E287-E289

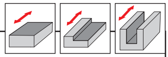
Ramping Data E343-E345

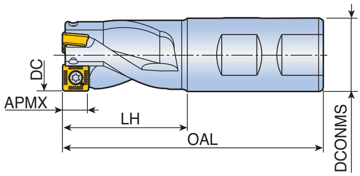
TaeguTec Member IMC Group

TSF-06/09/11/14

End mills







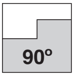
Designation		Dimension (mm)					Insert
		DC	DCONMS	OAL	LH	APMX	
TSF 112-W16-06	1	12	16	80	27	5.6	XOMT 0602... E271
216-W20-06	2	16	20	90	27	5.6	
320-W20-06	3	20	20	100	25	5.6	
TSF 222-W25-09	2	22	25	100	40	9.0	SPMG(T) 0904... E271
225-W25-09	2	25	25	100	40	9.0	
TSF 332-W32-11	3	32	32	115	55	10.7	SPMG(T) 1104... E271
440-W32-11	4	40	32	125	55	10.7	
TSF 445-W32-14	4	45	32	130	70	13.4	SPMG(T) 1405... E271
450-W32-14	4	50	32	140	80	13.4	

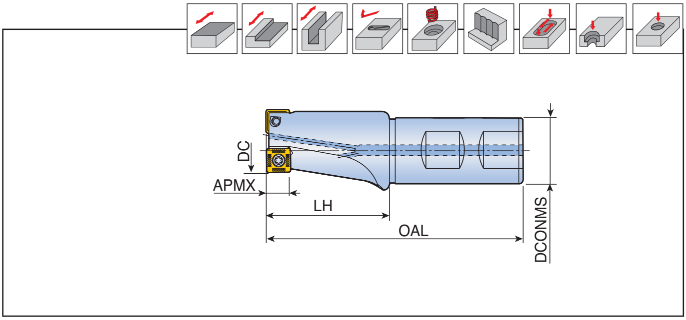
Spare parts

Designation	Screw	Wrench			
TSF (Ø12)	TS 22046I	TD 7			
TSF (Ø16-Ø20)	TS 22052I/HG	TD 7			
TSF (Ø22-Ø25)	TS 35088I	TD 10			
TSF (Ø32-Ø40)	TS 40093I	TD 15			
TSF (Ø45-Ø50)	TS 50A121I/HG	TD 20			

Cutting Condition
E287-E289

End mills





Designation		Dimension (mm)					Coolant hole	Max. drilling depth (mm)	Insert
		DC	DCONMS	OAL	LH	APMX			
TDM 112 W16-06	1	12	16	80	20	5.6	●	12	XOMT 0602... E271
216 W20-06	2	16	20	90	25	5.6	●	16	
218 W20-06	2	18	20	90	25	5.6	●	16	
220 W25-06	2	20	25	100	40	5.6	●	20	
222 W25-06	2	22	25	110	47	5.6	●	25	
TDM 225 W25-09	2	25	25	110	50	9.0	●	30	SPMG(T) 0904...-EM E271
228 W32-09	2	28	32	125	60	9.0	●	38	
TDM 232 W32-11	2	32	32	125	60	10.7	●	38	SPMG(T) 1104...-EM E271
240 W32-11	2	40	32	125	60	10.7	●	38	
TDM 245 W32-14	2	45	32	130	66	13.4	●	40	SPMG(T) 1405...-EM E271
250 W32-14	2	50	32	150	66	13.4	●	40	

Spare parts

Designation	Screw	Wrench			
TDM (Ø12)	TS 22046I	TD 7			
TDM (Ø16-Ø20)	TS 22052I/HG	TD 7			
TDM (Ø22-Ø25)	TS 35088I	TD 10			
TDM (Ø32-Ø40)	TS 40093I	TD 15			
TDM (Ø45-Ø50)	TS 50A121I/HG	TD 20			

Cutting Condition
E287-E289

CHASEQUAD

End mills

45°

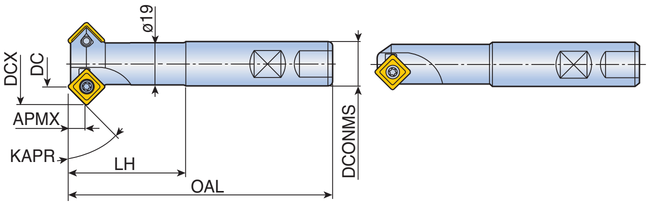


Fig.1

Fig.2

Designation	Teeth	Dimension (mm) KAPR	DCX	DC	DCONMS	OAL	LH	APMX	Fig.	Application range(mm)	Insert
TCF 15 D25-11	2	75°	30.5	25	20	120	40	10.1	1	Ø26.3-Ø30.0	SPMT(G) 1104...EM E271
30 D25-11	2	60°	35.5	25	20	120	40	8.9	1	Ø26.3-Ø34.0	
45 D07-11	1	45°	21.5	7	20	120	40	7.2	2	Ø8.3-Ø20.9	
45 D19-11	2	45°	33.4	19	20	120	40	7.2	1	Ø20.3-Ø32.9	
45 D25-11	3	45°	39.4	25	20	120	40	7.2	1	Ø26.3-Ø38.9	

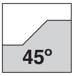
Spare parts

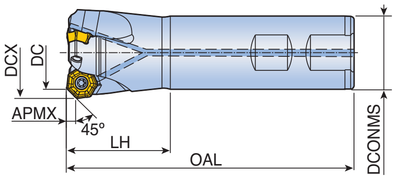
Designation	Screw	Wrench			
TCF-11	TS 40093I	TD 15			

Cutting Condition E287-E289

7S-E45-06

End mills





Designation	Z	Dimension (mm)						Coolant hole	Insert
		DCX	DC	DCONMS	OAL	LH	APMX		
7S-E45 232P-W32-06	2	32	23.7	32	125	45	3.2	●	7EMT 0604 ... E234
340P-W32-06	3	40	31.6	32	125	45	3.2	●	
450P-W32-06	4	50	41.5	32	125	45	3.2	●	

Spare parts

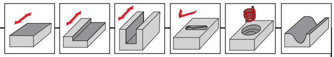
Designation	Screw	Wrench			
7S-E45-06 (-Ø40)	TS 40085I/HG	TD 15			
7S-E45-06 (Ø50-)	TS 40093I/HG	TD 15			

Cutting Condition E287-E289

Ramping Data E348

TERNS

End mills



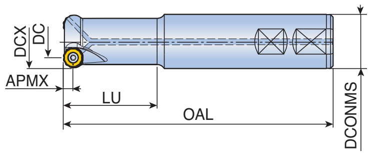


Fig.1

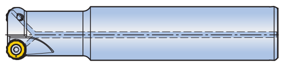
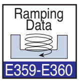
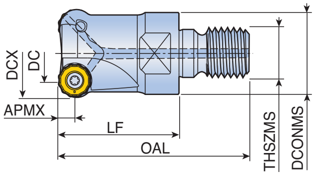


Fig.2

Designation		Dimension (mm)						Coolant hole	Fig.	Insert
		DCX	DC	DCONMS	OAL	LU	APMX			
TERNS 225-25-10-L160	2	25	15	25	160	60	5.0	●	2	RNMU 1004...
225-32-10-L250	2	25	15	32	250	40	5.0	●	2	E259
325-25-10-L160	3	25	15	25	160	60	5.0	●	2	
226-25-10-L200	2	26	16	25	200	80	5.0	●	2	
332-32-10-L180	3	32	22	32	180	70	5.0	●	2	
332-32-10-L250	3	32	22	32	250	100	5.0	●	2	
432-32-10-L180	4	32	22	32	180	70	5.0	●	2	
432-32-10-L250	4	32	22	32	250	100	5.0	●	2	
433-32-10-L200	4	33	23	32	200	80	5.0	●	2	
433-32-10-L250	4	33	23	32	250	100	5.0	●	2	
TERNS 232-32-12-L150	2	32	20	32	150	50	6.0	●	2	RNMU 1205...
232-32-12-L200	2	32	20	32	200	60	6.0	●	2	E259
232-32-12-L	2	32	20	32	250	50	6.0	●	2	
332-W32-12	3	32	20	32	160	60	6.0	●	1	
332-32-12-L200	3	32	20	32	200	70	6.0	●	2	
332-32-12-L250	3	32	20	32	250	60	6.0	●	2	
233-32-12-L200	2	33	21	32	200	50	6.0	●	2	
233-32-12-L250	2	33	21	32	250	50	6.0	●	2	
333-32-12-L200	3	33	21	32	200	70	6.0	●	2	
333-32-12-L250	3	33	21	32	250	60	6.0	●	2	
340-W32-12	3	40	28	32	160	50	6.0	●	1	
340-32-12-L250	3	40	28	32	250	50	6.0	●	2	
440-W32-12	4	40	28	32	160	50	6.0	●	1	
440-32-12-L250	4	40	28	32	250	60	6.0	●	2	
450-32-12-L200	4	50	38	32	200	70	6.0	●	2	
550-32-12-L250	5	50	38	32	250	60	6.0	●	2	
TERNS 240-W32-16-L160	2	40	24	32	160	50	6.0	●	1	RNMU 1606...
240-32-16-L180	2	40	24	32	180	70	8.0	●	2	E259
240-32-16-L250	2	40	24	32	250	100	8.0	●	2	
340-32-16-L180	3	40	24	32	180	70	8.0	●	2	
340-32-16-L250	3	40	24	32	250	100	8.0	●	2	



Modular heads



Designation		Teeth	Dimension (mm)							Coolant hole	Insert
			DCX	DC	DCONMS	LF	OAL	THSZMS	APMX		
TERNS	**225-M12-10**	2	25	15	21	35	57	M12	5.0	●	RNMU 1004... E259
	325-M12-10	3	25	15	21	35	57	M12	5.0	●	
	432-M16-10	4	32	22	29	43	68	M16	5.0	●	
	542-M16-10	5	42	32	29	43	68	M16	5.0	●	
TERNS	**232-M16-12**	2	32	20	29	43	68	M16	6.0	●	RNMU 1205... E259
	332-M16-12	3	32	20	29	43	68	M16	6.0	●	
	233-M16-12	2	33	21	29	43	68	M16	6.0	●	
	333-M16-12	3	33	21	29	43	68	M16	6.0	●	
	340-M16-12	3	40	28	29	43	68	M16	6.0	●	
	440-M16-12	4	40	28	29	43	68	M16	6.0	●	
TERNS	**240-M16-16**	2	40	24	29	43	68	M16	8.0	●	RNMU 1606... E259
	340-M16-16	3	40	24	29	43	68	M16	8.0	●	

• Matched with T-FLEXTEC holder

Spare parts

Designation	Screw	Wrench			
TERNS-10	TS 35085I/HG	TD 15	-		
TERNS-12	TS 40G110I	-	T-T15		
TERNS-16	TS 50A121I/HG	TD 20	-		

Cutting Condition E287-E289

Ramping Data E359-E360

CHASEMOLD

End mills

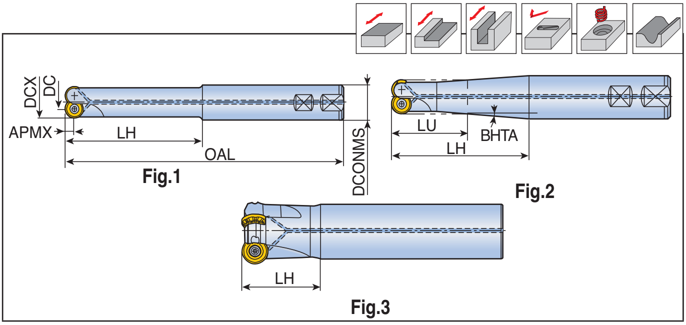


Fig.1
Fig.2
Fig.3

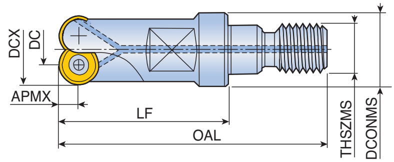
Designation		Dimension (mm)								Coolant hole	Fig.	Insert
		DCX	DC	DCONMS	OAL	LH	LU	BHTA	APMX			
TERD 108-W10-05	1	8	3	10	80	20	-	-	2.5	●	1	RDMX 0501...
210-W12-05	2	10	5	12	80	30	-	-	2.5	●	1	E260
212-W12-05	2	12	7	12	100	40	-	-	2.5	●	1	
212-16-05-L	2	12	7	16	200	60	34	2.0	2.5	●	2	
215-W20-07	2	15	8	20	140	40	-	-	3.5	●	1	RDMX 0702...
215-20-07-L	2	15	8	20	200	60	34	3.5	3.5	●	2	E260
217-16-07-L160	2	17	10	16	160	25	-	-	3.5	●	3	
217-16-07-L200	2	17	10	16	200	25	-	-	3.5	●	3	
TERX 220-W20-10	2	20	10	20	160	60	-	-	5.0	●	1	RXM(H)X 1003...
220-25-10-L	2	20	10	25	250	80	60	4.0	5.0	●	2	E260
221-20-10-L160	2	21	11	20	160	30	-	-	5.0	●	3	
221-20-10-L200	2	21	11	20	200	30	-	-	5.0	●	3	
225-W25-10	2	25	15	25	160	60	-	-	5.0	●	1	
225-32-10-L	2	25	15	32	250	80	50	6.8	5.0	●	2	
226-25-10-L200	2	26	16	25	200	30	-	-	5.0	●	3	
226-25-10-L250	2	26	16	25	250	30	-	-	5.0	●	3	
226-25-10-L300	2	26	16	25	200	30	-	-	5.0	●	3	
325-W25-10	3	25	15	25	160	60	-	-	5.0	●	1	
432-W32-10	4	32	22	32	160	60	-	-	5.0	●	1	
TERX 225-W25-12	2	25	13	25	160	60	-	-	6.0	●	1	RXM(H)X 12T3...
225-W25-12-S-C	2	25	13	25	100	40	-	-	6.0	●	1	E260
226-25-12-L250	2	26	14	25	250	40	-	-	6.0	●	3	
232-32-12-L	2	32	20	32	250	50	-	-	6.0	●	3	
332-W32-12	3	32	20	32	160	64	-	-	6.0	●	1	
233-32-12-L200	2	33	21	32	200	40	-	-	6.0	●	3	
233-32-12-L250	2	33	21	32	250	40	-	-	6.0	●	3	
233-32-12-L300	2	33	21	32	300	40	-	-	6.0	●	3	
235-32-12-L250	2	35	23	32	250	40	-	-	6.0	●	3	
340-32-12-L250	3	40	28	32	250	40	-	-	6.0	●	3	
440-W32-12	4	40	28	32	160	50	-	-	6.0	●	1	
440-W32-12-S-C	4	40	28	32	105	35	-	-	6.0	●	1	
TERX 240-W32-16	2	40	24	32	160	50	-	-	8.0	●	1	RXMX 1604...
340-32-16-L250	3	40	24	32	250	50	-	-	8.0	●	3	E260
TERX 350-32-20	3	50	30	32	160	50	-	-	10.0	●	3	RXMX 2006...
350-42-20	3	50	30	42	200	60	-	-	10.0	●	3	E260

Cutting Condition E287-E289

Ramping Data E361-E363

TERD/TERX-M

Modular heads



Designation	Number of inserts	Dimension (mm)							Coolant hole	Insert
		DCX	DC	DCONMS	LF	OAL	THSZMS	APMX		
TERD 108-M06-05	1	8	3	9.7	28	37.5	M06	2.5	●	RDMX 0501... E260
210-M06-05	2	10	5	9.7	28	37.5	M06	2.5	●	
210-M08-05	2	10	5	13	28	45.5	M08	2.5	●	
212-M08-05	2	12	7	13	28	45.5	M08	2.5	●	
312-M08-05	3	12	7	13	28	45.5	M08	2.5	●	
215-M08-07	2	15	8	13	23	40.5	M08	3.5	●	RDMX 0702... E260
220-M08-07	2	20	13	13	30	47.5	M08	3.5	●	
320-M08-07	3	20	13	13	30	47.5	M08	3.5	●	
TERX 220-M10-10	2	20	10	18	30	50	M10	5.0	●	RXM(H)X 1003... E260
225-M12-10	2	25	15	21	35	57	M12	5.0	●	
325-M12-10	3	25	15	21	35	57	M12	5.0	●	
430-M16-10	4	30	20	29	43	68	M16	5.0	●	
432-M16-10	4	32	22	29	43	68	M16	5.0	●	
435-M16-10	4	35	25	29	43	68	M16	5.0	●	
542-M16-10	5	42	32	29	43	68	M16	5.0	●	
TERX 224-M12-12	2	24	12	21	35	57	M12	6.0	●	RXM(H)X 12T3... E260
232-M16-12	2	32	20	29	43	68	M16	6.0	●	
332-M16-12	3	32	20	29	43	68	M16	6.0	●	
335-M16-12	3	35	23	29	43	68	M16	6.0	●	
340-M16-12	3	40	28	29	43	68	M16	6.0	●	
442-M16-12	4	42	30	29	43	68	M16	6.0	●	
TERX 232-M16-16	2	32	16	29	43	68	M16	8.0	●	RXMX 1604... E260
342-M16-16	3	42	26	29	43	68	M16	8.0	●	

• Matched with T-FLEXTEC holder

Spare parts

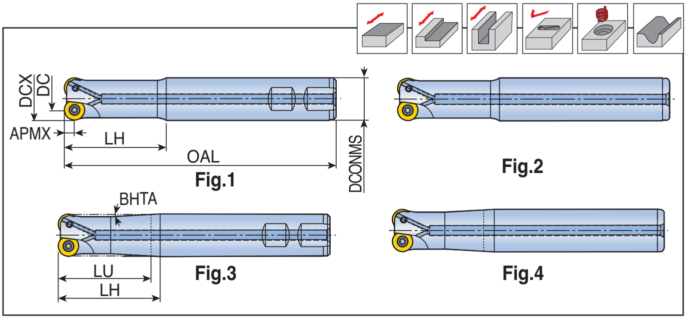
Designation	Screw	Wrench			
TERD-05	TS 20038I	TD 6			
TERD-07	SO 25050I	TD 7			
TERX-10	TS 35070I/HG	TD 15			
TERX-12	TS 35085I/HG	TD 15			
TERX-16	TS 45A100I/HG	TD 20			
TERX-20	TS 50115I/HG	TD 20			

Cutting Condition E287-E289

Ramping Data E361-E363

CHASEMOLD

End mills



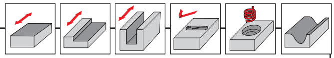
Designation		Dimension (mm)								Coolant hole	Fig.	Insert
		DCX	DC	DCONMS	OAL	LU	LH	BHTA	APMX			
TERY 216-W20-08-L	2	16	8	20	110	45	55	4.1	4.0	●	3	RYM(H)X 0803... E261-E262
217-16-08-L130	2	17	9	16	130	-	30	-	4.0	●	2	
218-16-08-L150	2	18	10	16	150	-	30	-	4.0	●	2	
320-W20-08	3	20	12	20	150	-	43	-	4.0	●	1	
320-20-08-L110	3	20	12	20	110	-	60	-	4.0	●	2	
321-20-08-L150	3	21	13	20	150	-	40	-	4.0	●	2	
425-W25-08	4	25	17	25	150	-	43	-	4.0	●	1	
426-25-08-L150	4	26	18	25	150	-	40	-	4.0	●	2	
532-W32-08	5	32	24	32	160	-	60	-	4.0	●	1	
TERY 220-W20-10	2	20	10	20	160	-	60	-	5.0	●	1	RYM(H)X 1004... E261-E262
220-25-10-L	2	20	10	25	250	60	80	3.5	5.0	●	4	
221-20-10-L200	2	21	11	20	200	-	30	-	5.0	●	2	
225-32-10-L	2	25	15	32	250	53	80	5.0	5.0	●	4	
225-W25-10	2	25	15	25	160	-	60	-	5.0	●	1	
325-W25-10	3	25	15	25	160	-	60	-	5.0	●	1	
226-25-10-L200	2	26	16	25	200	-	30	-	5.0	●	2	
326-25-10-L200	3	26	16	25	200	-	60	-	5.0	●	2	
432-W32-10	4	32	22	32	160	-	60	-	5.0	●	1	
TERY 225-W25-12	2	25	13	25	160	-	60	-	6.0	●	1	RYM(H)X 1205... E261-E262
226-25-12-L200	2	26	14	25	200	-	60	-	6.0	●	2	
232-32-12-L	2	32	20	32	250	-	50	-	6.0	●	2	
332-W32-12	3	32	20	32	160	-	64	-	6.0	●	1	
332-W32-12-S	3	32	20	32	105	-	35	-	6.0	●	1	
233-32-12-L250	2	33	21	32	250	-	40	-	6.0	●	2	
333-32-12-L200	3	33	21	32	200	-	60	-	6.0	●	2	
340-W32-12	3	40	28	32	160	-	50	-	6.0	●	1	
340-W32-12-S	3	40	28	32	105	-	35	-	6.0	●	1	
340-32-12-L250	3	40	28	32	250	-	50	-	6.0	●	2	
440-W32-12	4	40	28	32	150	-	35	-	6.0	●	1	
440-W32-12-S	4	40	28	32	105	-	35	-	6.0	●	1	
TERY 240-W32-16	2	40	24	32	160	-	50	-	8.0	●	1	RYM(H)X 1606... E261-E262
340-32-16-L250	3	40	24	32	250	-	50	-	8.0	●	2	
TERY 350-32-20	3	50	30	32	160	-	50	-	10.0	●	2	RYM(H)X 2007... E261-E262
350-40-20	3	50	30	40	200	-	60	-	10.0	●	2	

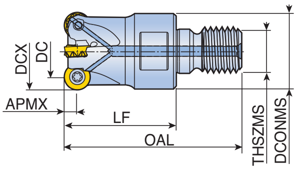
Cutting Condition E287-E289

Ramping Data E364-E366

TERY-M-08/10

Modular heads





Designation		Dimension (mm)							Coolant hole	Insert
		DCX	DC	DCONMS	LF	OAL	THSZMS	APMX		
TERY 216-M08-08	2	16	8	13	23	40.5	M08	4.0	●	RYM(H)X 0803... E261-E262
218-M08-08	2	18	10	13	23	40.5	M08	4.0	●	
220-M10-08	2	20	12	18	30	50	M10	4.0	●	
320-M10-08	3	20	12	18	30	50	M10	4.0	●	
425-M12-08	4	25	17	21	35	57	M12	4.0	●	
530-M16-08	5	30	22	29	43	68	M16	4.0	●	
532-M16-08	5	32	24	29	43	68	M16	4.0	●	
540-M16-08	5	40	32	29	43	68	M16	4.0	●	
640-M16-08	6	40	32	29	43	68	M16	4.0	●	
TERY 220-M10-10	2	20	10	18	30	50	M10	5.0	●	RYM(H)X 1004... E261-E262
225-M12-10	2	25	15	21	35	57	M12	5.0	●	
325-M12-10	3	25	15	21	35	57	M12	5.0	●	
430-M16-10	4	30	20	29	43	68	M16	5.0	●	
432-M16-10	4	32	22	29	43	68	M16	5.0	●	
435-M16-10	4	35	25	29	43	68	M16	5.0	●	
542-M16-10	5	42	32	29	43	68	M16	5.0	●	
642-M16-10	6	42	32	29	43	68	M16	5.0	●	

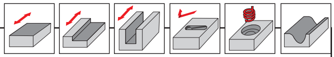
Cutting Condition E287-E289

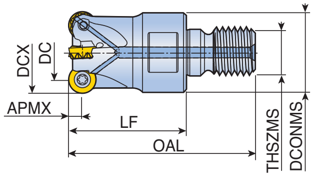
Ramping Data E364-E366

• Matched with T-FLEXTEC holder

CHASEMOLD

Modular heads





Designation		Dimension (mm)							Coolant hole	Insert
		DCX	DC	DCONMS	LF	OAL	THSZMS	APMX		
TERY 225-M12-12	2	25	13	21	35	57	M12	6.0	●	RYM(H)X 1205... E261-E262
232-M16-12	2	32	20	29	43	68	M16	6.0	●	
332-M16-12	3	32	20	29	43	68	M16	6.0	●	
335-M16-12	3	35	23	29	43	68	M16	6.0	●	
340-M16-12	3	40	28	29	43	68	M16	6.0	●	
440-M16-12	4	40	28	29	43	68	M16	6.0	●	
442-M16-12	4	42	30	29	43	68	M16	6.0	●	
TERY 232-M16-16	2	32	16	29	43	68	M16	8.0	●	RYM(H)X 1606... E261-E262
240-M16-16	2	40	24	29	43	68	M16	8.0	●	
342-M16-16	3	42	26	29	43	68	M16	8.0	●	

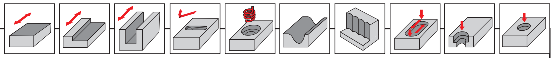
• Matched with T-FLEXTEC holder

Spare parts

Designation	Screw	Wrench		Wrench handle	
TERY-08	TS 30A060I/HG	TD 9	-		
TERY-10	TS 35070I/HG(UnderD21), TS 35085I/HG	TD 15	-		
TERY-12	TS 40093I	TD 15	-		
TERY-16	TS 50115I	TD 20	-		
TERY-20	TS 60A130I	-	BLD T25/M7	SW6-T	

Cutting Condition E287-E289
Ramping Data E364-E366

End mills



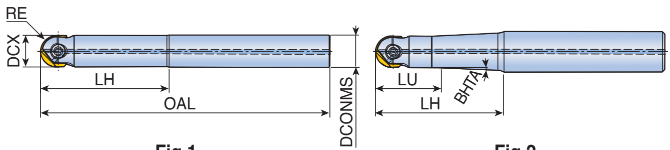


Fig.1

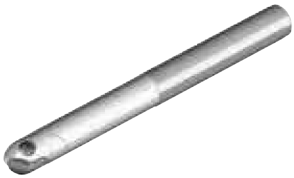
Fig.2

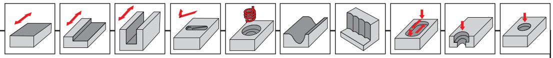
Designation	Dimension (mm)							Coolant hole	Fig.	Insert
	DCX	RE	DCONMS	OAL	LH	LU	BHTA			
TNF 060-10M	6	3	10	80	30	15	7.5°	●	2	NFB 060... NFR 060A...
060-30-L80	6	3	10	80	30	-	-	●	1	
080-08S	8	4	8	90	20	-	-	●	1	NFB 080... NFR 080A...
080-12S	8	4	12	100	20	10	9.5°	●	2	
080-12M	8	4	12	130	50	10	3°	●	2	
100-10S	10	5	10	90	30	-	-	●	1	NFB 100... NFR 100A... NFR 110A...
100-12S	10	5	12	110	25	15	5°	●	2	
100-16M	10	5	16	130	60	15	3.5°	●	2	
120-12S	12	6	12	110	30	-	-	●	1	NFB 120... NFR 120A... NFR 130A...
120-12M	12	6	12	180	60	-	-	●	1	
120-16M	12	6	16	140	60	25	2.4°	●	2	
120-20L	12	6	20	180	80	40	5°	●	2	
160-16M	16	8	16	130	40	-	-	●	1	NFB 160... NFR 160A... NFR 170A...
160-16L	16	8	16	200	100	-	-	●	1	
160-20M	16	8	20	160	60	25	2.5°	●	2	
160-25L	16	8	25	220	100	55	5°	●	2	
200-20S	20	10	20	110	40	-	-	●	1	NFB 200... NFR 200A... NFR 210A...
200-20M	20	10	20	150	50	-	-	●	1	
200-20L	20	10	20	220	70	-	-	●	1	
200-25M	20	10	25	180	80	40	2.5°	●	2	
200-25L	20	10	25	220	110	45	1.5°	●	2	
250-25S	25	12.5	25	125	40	-	-	●	1	NFB 250... NFR 250A... NFR 260A...
250-25M	25	12.5	25	170	70	-	-	●	1	
250-32M	25	12.5	32	200	90	32	3°	●	2	
250-32L	25	12.5	32	250	130	40	1.5°	●	2	
300-32S	30	15	32	140	55	-	-	●	1	NFB 300... NFB 320... NFR 300A... NFR 320A...
300-32M	30	15	32	190	75	-	-	●	1	
300-32L	30	15	32	250	100	65	1°	●	2	
300-32XL	30	15	32	300	150	-	-	●	1	
300-32-L220	30	15	32	220	100	55	1°	●	2	
320-32L	32	16	32	250	60	-	-	●	1	NFB 320... NFR 320A... E252-E254

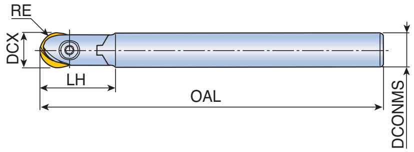
Cutting Condition
E287-E289

TNF-CT-L

End mills-carbide shank



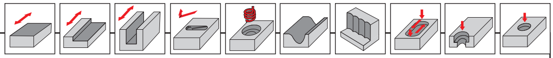


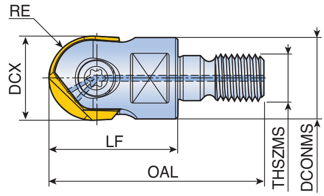


Designation		Dimension (mm)					Insert
		DCX	RE	DCONMS	OAL	LH	
TNF	060-06-CT-L60	6	3	6	60	15	NFB 060... NFR 060A...
	060-06-CT-L80	6	3	6	80	20	
	060-06-CT-L92	6	3	6	92	35	
	060-06-CT-L120	6	3	6	120	65	
	060-06-CT-L140	6	3	6	140	25	
	080-08-CT-L100	8	4	8	100	30	NFB 080... NFR 080A...
	080-10-CT-L140	8	4	10	140	75	
	080-08-CT-L160	8	4	8	160	80	
	100-10-CT-L100	10	5	10	100	35	NFB 100... NFR 100A... NFR 110A...
	100-10-CT-L140	10	5	10	140	75	
	100-10-CT-L200	10	5	10	200	70	
	100-10-CT-L220	10	5	10	220	140	
	120-12-CT-L120	12	6	12	120	50	NFB 120... NFR 120A... NFR 130A...
	120-12-CT-L160-S	12	6	12	160	30	
	120-12-CT-L160	12	6	12	160	90	
	120-12-CT-L200	12	6	12	200	70	
	120-12-CT-L220	12	6	12	220	150	
	160-16-CT-L120	16	8	16	120	60	NFB 160... NFR 160A... NFR 170A...
	160-16-CT-L160-S	16	8	16	160	70	
	160-16-CT-L160	16	8	16	160	80	
	160-16-CT-L200	16	8	16	200	70	
	160-16-CT-L220	16	8	16	220	150	
	200-20-CT-L200	20	10	20	200	70	NFB 200... NFR 200A... NFR 210A...
	200-20-CT-L110	20	10	20	110	40	
	200-20-CT-L220	20	10	20	220	120	
	200-20-CT-L300	20	10	20	300	220	
	250-25-CT-L200	25	12.5	25	200	70	NFB 250... NFR 250A... NFR 260A...
	250-25-CT-L220-S	25	12.5	25	220	80	
	250-25-CT-L220	25	12.5	25	220	120	
	250-25-CT-L300	25	12.5	25	300	220	
	300-32-CT-L200	30	15	32	200	70	NFB 300... NFB 320... NFR 300A... NFR 320A... E252-E254
	300-32-CT-L250-S	30	15	32	250	80	
	300-32-CT-L250	30	15	32	250	150	
	300-32-CT-L350-S	30	15	32	350	80	
	300-32-CT-L350	30	15	32	350	230	
	320-32-CT-L300	32	16	32	300	220	NFB 320... NFR 320A...

FINEBALL

Modular heads





Designation		Dimension (mm)						Coolant hole	Insert
		DCX	RE	DCONMS	OAL	LF	THSZMS		
TNF	**100-M06**	10	5	9.7	34.5	20	M06	●	NFB 100...
									NFR 100A...
									NFR 110A...
	120-M06	12	6	11.5	37.5	23	M06	●	NFB 120...
	120-M08	12	6	13	40.5	23	M08	●	NFR 120A...
									NFR 130A...
	160-M08	16	8	13	47.5	30	M08	●	NFB 160...
									NFR 160A...
									NFR 170A...
	200-M10	20	10	19	50	30	M10	●	NFB 200...
									NFR 200A...
									NFR 210A...
	250-M12	25	12.5	24	57	35	M12	●	NFB 250...
	250-M16	25	12.5	29	68	43	M16	●	NFR 250A...
									NFR 260A...
	300-M16	30	15	29	68	43	M16	●	NFB 300... NFB 320...
									NFR 300A...
									NFR 320A...
	320-M16	32	16	29.5	68	43	M16	●	NFB 320...
									NFR 320A...
									E252-E254

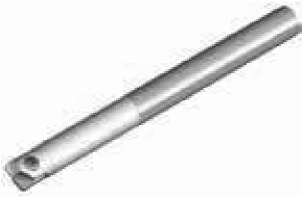
• Matched with T-FLEXTEC holder

Spare parts

Designation	Screw	Wrench			Wrench handle	
TNF 060	TS 20F060A	TD 6	-	-	-	
TNF 080	TS 25F080A	TD 8	-	-	-	
TNF 100	TS 30F100A	TD 10	-	-	-	
TNF 120	TS 40F120A	TD 15	-	-	-	
TNF 160	TS 50F160A	-	T-T20	-	-	
TNF 200	TS 60F200A	-	-	BLD T25/M7	SW6-T	
TNF 250	TS 70F250A	-	-	BLD T25/M7	SW6-T	
TNF 300, TNF 320	TS 80F300A	-	T-T30	-	-	

Cutting Condition
E287-E289

End mills



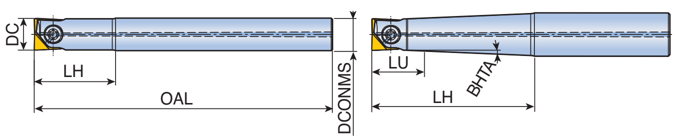


Fig.1 Fig.2

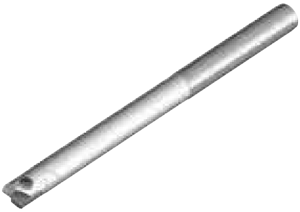
Designation	Dimension (mm)						Coolant hole	Fig.	Insert
	DC	DCONMS	OAL	LH	LU	BHTA			
TNFR 060-10M	6	10	80	30	15	9°	●	2	NFR 060A...
080-12S	8	12	100	22	10	9°	●	2	NFR 080A...
080-12M	8	12	130	50	10	2.8°	●	2	
100-12S	10	12	110	25	15	5°	●	2	NFR 100A...
100-16M	10	16	150	50	15	3.5°	●	2	NFR 110A...
120-12S	12	12	110	30	-	-	●	1	NFR 120A...
120-16M	12	16	160	60	18	2.5°	●	2	NFR 130A...
160-16S	16	16	130	50	-	-	●	1	NFR 160A...
160-16M	16	16	170	70	-	-	●	1	NFR 170A...
160-16L	16	16	200	100	-	-	●	1	
200-20S	20	20	140	60	-	-	●	1	NFR 200A...
200-20M	20	20	180	80	-	-	●	1	NFR 210A...
200-20L	20	20	250	120	-	-	●	1	
250-25S	25	25	150	70	-	-	●	1	NFR 250A...
250-25M	25	25	200	100	-	-	●	1	NFR 260A...
250-25L	25	25	250	120	-	-	●	1	
300-32S	30	32	140	55	-	-	●	1	NFR 300A
300-32M	30	32	190	75	-	-	●	1	NFR 320A
300-32L	30	32	250	100	65	1°	●	2	
320-32L	32	32	250	60	-	-	●	1	NFR 320A

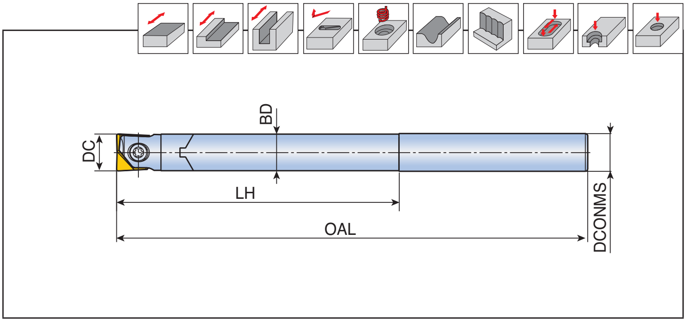
E253-E254

Cutting Condition E287-E289

TNFR-CT-L

End mills-carbide shank



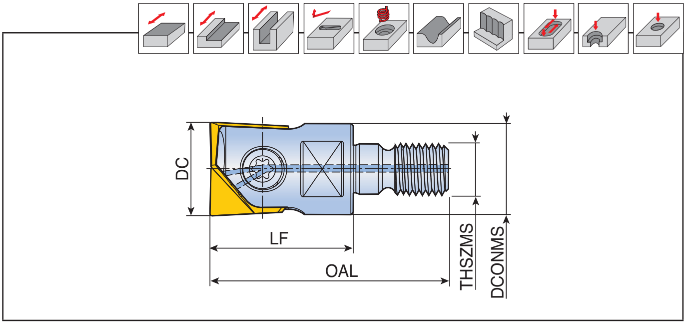


Designation		Dimension (mm)					Insert
		DC	DCONMS	BD	OAL	LH	
TNFR	060-06-CT-L60	6	6	5.8	60	15	NFR 060A...
	060-06-CT-L80	6	6	5.8	80	20	
	080-08-CT-L140	8	8	7.8	140	75	NFR 080A...
	100-10-CT-L140	10	10	9.7	140	75	NFR 100A...
							NFR 110A...
	120-12-CT-L160	12	12	11.7	160	95	NFR 120A...
							NFR 130A...
	160-16-CT-L200	16	16	15.5	200	120	NFR 160A...
							NFR 170A...
	200-20-CT-L250	20	20	19.5	250	160	NFR 200A...
							NFR 210A...
	250-25-CT-L300	25	25	24.5	300	200	NFR 250A...
							NFR 260A...
	300-32-CT-L350	30	32	29.5	350	230	NFR 300A...
							NFR 320A...
	320-32-CT-L350	32	32	31.5	350	230	NFR 320A...
							E253-E254

Cutting Condition
E287-E289

TNFR-M

Modular heads



Designation	Dimension (mm)					Coolant hole	Insert
	DC	DCONMS	LF	OAL	THSZMS		
TNFR 100-M06	10	9.7	20	34.5	M06	●	NFR 100A...
							NFR 110A...
120-M06	12	11.5	23	37.5	M06	●	NFR 120A...
120-M08	12	13	23	40.5	M08	●	NFR 130A...
160-M08	16	13	30	47.5	M08	●	NFR 160A...
							NFR 170A...
200-M10	20	19	30	50	M10	●	NFR 200A...
							NFR 210A...
250-M12	25	24	35	57	M12	●	NFR 250A...
							NFR 260A...
300-M16	30	29	43	68	M16	●	NFR 300A
							NFR 320A
320-M16	32	29.5	43	68	M16	●	NFR 320A
							E253-E254

• Matched with T-FLEXTEC holder

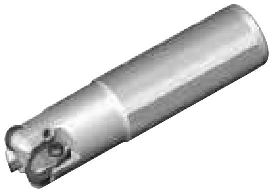
Spare parts

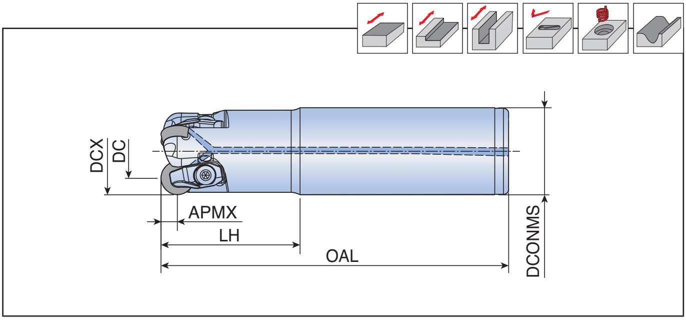
Designation	Screw	Wrench			Wrench handle	
TNFR 060	TS 20F060A	TD 6	-	-	-	
TNFR 080	TS 25F080A	TD 8	-	-	-	
TNFR 100	TS 30F100A	TD 10	-	-	-	
TNFR 120	TS 40F120A	TD 15	-	-	-	
TNFR 160	TS 50F160A	-	T-T20	-	-	
TNFR 200	TS 60F200A	-	-	BLD T25/M7	SW6-T	
TNFR 250	TS 70F250A	-	-	BLD T25/M7	SW6-T	
TNFR 300, TNFR 320	TS 80F300A	-	T-T30	-	-	

Cutting Condition
E287-E289

TERP-09

End mills

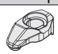
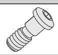
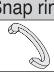
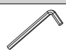




Designation	Teeth	Dimension (mm)						Air hole[1]	Insert
		DCX	DC	DCONMS	OAL	LH	APMX		
TERP 220-20-09FL-L80	2	20	10.6	20	80	30	4.7	●	RPGN 0903 FL... E258
325-25-09FL-L100	3	25	15.6	25	100	40	4.7	●	
432-32-09FL-L120	4	32	22.5	32	120	40	4.7	●	

• [1] Use only air (Coolant is prohibited)

Spare parts

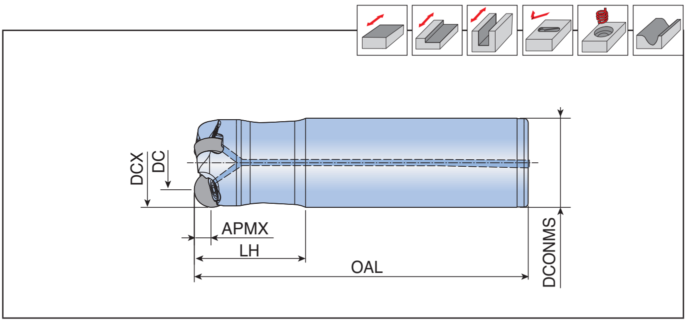
Designation	Clamp	Screw	Snap ring	Wrench	
					
TERP-09	CCL-3S-F	CLS-35A120	CSR 1.25	L-W 2	

Cutting Condition E287-E289

TERP-12

CHASESPEED

End mills



Designation		Teeth	Dimension (mm)						Air hole[1]	Insert
			DCX	DC	DCONMS	OAL	LH	APMX		
TERP	**332-32-12-L120**	3	32	19.3	32	120	40	6.3	●	RPGN 1204 FL...
	440-32-12-L120	4	40	27.3	32	120	40	6.3	●	E258

• [1] Use only air (Coolant is prohibited)

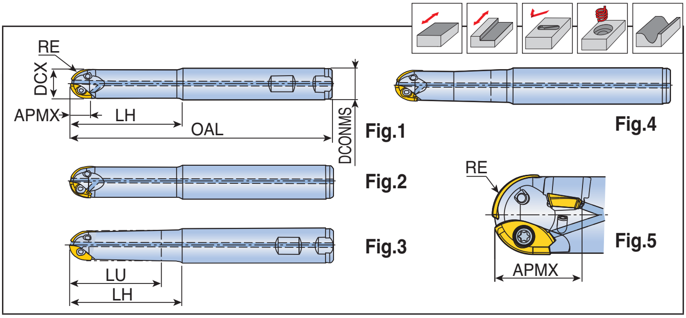
Spare parts

Designation	Clamp	Screw	Wrench		
TERP-12	WFZ 6-C	WS 6	T-W 3		

Cutting Condition
E287-E289

DUETBALL

End mills



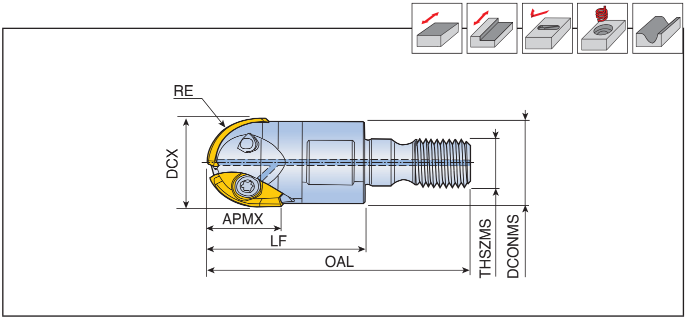
Designation	Dimension (mm)							Fig.	Insert			
	DCX	RE	DCONMS	OAL	LU	LH	APMX		Ball		Periphery	
2F 16-11-W20-L120	16	8	20	120	35.5	60	11.8	3	2FB160 E224	2	-	-
16-11-20-L130	16	8	20	130	45.9	60	11.8	4		2	-	-
16-11-20-L200	16	8	20	200	45.9	60	11.8	4		2	-	-
16-20-W20-L120-P	16	8	20	120	41.8	60	20.5	5		2	APKT 09T3 E236	1
16-20-25-L200-P	16	8	25	200	43.4	65	20.5	5		2		1
20-13-W25-L105	20	10	25	105	-	45	13.6	1	2FB200 E224	2	-	-
20-13-W25-L150	20	10	25	150	45.7	65	13.6	3		2	-	-
20-13-20-L220	20	10	20	220	-	70	13.6	2		2	-	-
20-13-25-L160	20	10	25	160	58.4	75	13.6	4		2	-	-
20-13-25-L220	20	10	25	220	65.7	85	13.6	4		2	-	-
20-22-25-L125-P	20	10	25	125	45.7	65	22.3	5		2	APKT 09T3 E236	1
20-22-25-L200-P	20	10	25	200	74.3	90	22.3	5		2		1
20-22-32-L250-P	20	10	32	250	72.3	100	22.3	5		2		1
25-17-W25-L150	25	12.5	25	150	-	60	17.7	1	2FB250 E224	2	-	-
25-17-32-L150	25	12.5	32	150	55.7	75	17.7	4		2	-	-
25-17-32-L200	25	12.5	32	200	61.6	85	17.7	4		2	-	-
25-17-32-L300	25	12.5	32	300	80	120	17.7	4		2	-	-
25-35-25-L200-P	25	12.5	25	200	-	87.5	35.1	5		2	APKT 09T3 E236	2
25-35-32-L200-P	25	12.5	32	200	-	100	35.1	5		2		2
25-35-32-L250-P	25	12.5	32	250	-	110	35.1	5		2		2
25-43-32-L300-P	25	12.5	32	300	-	120	43.7	5		2		3
30-20-W32-L180	30	15	32	180	-	86.1	20.0	1	2FB300 E224	2	-	-
30-20-30-L250	30	15	30	250	-	104.6	20.0	2		2	-	-
30-20-32-L200	30	15	32	200	-	86.1	20.0	2		2	-	-
30-20-32-L300	30	15	32	300	-	126.1	20.0	2		2	-	-
30-43-32-L160-P	30	15	32	160	-	66	43.7	5		2	APKT 1204 E237	2
30-43-32-L200-P	30	15	32	200	-	85.6	43.7	5		2		2
30-43-32-L250-P	30	15	32	250	-	125.6	43.7	5		2		2
30-51-32-L300-P	30	15	32	300	-	146	55.3	5		2		3
32-21-W32-L200	32	16	32	200	-	100	21.4	1	2FB320 E224	2	-	-
32-21-32-L180	32	16	32	180	-	100	21.4	2		2	-	-
32-21-32-L300	32	16	32	300	-	130	21.4	2		2	-	-
32-44-32-L160-P	32	16	32	160	-	66.4	44.7	5		2	APKT 1204 E237	2
32-44-32-L200-P	32	16	32	200	-	83.7	44.7	5		2		2
32-44-32-L250-P	32	16	32	250	-	123.7	44.7	5		2		2
32-44-32-L300-P	32	16	32	300	-	143.7	44.7	5		2		2

Cutting Condition E287-E289

• Coolant though type

TaeguTec Member IMC Group

Modular heads



Designation		Dimension (mm)							Coolant hole	Insert
		DCX	RE	DCONMS	LF	OAL	THSZMS	APMX		
2F 16-11-M08	2	16	8	13	25	42.5	M08	11.8	●	2FB160...
20-13-M10	2	20	10	18	30	50	M10	13.6	●	2FB200...
25-17-M12	2	25	12.5	21	35	57	M12	17.7	●	2FB250...
30-20-M16	2	30	15	29	43	68	M16	20.0	●	2FB300...
32-21-M16	2	32	16	29	43	68	M16	21.4	●	2FB320... E224

• Matched with T-FLEXTEC holder

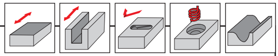
Spare parts

Designation	Screw		Wrench		
	Ball	Periphery	Ball	Periphery	
2FB160/APKT 09T3	TS 25064I	TS 25055I/HG	TD 8	TD 8	
2FB200/APKT 09T3	TS 30085I/HG	TS 25055I/HG	TD 9	TD 8	
2FB250/APKT 09T3	TS 35085I/HG	TS 25055I/HG	TD 15	TD 8	
2FB300/APKT 1204	TS 40A100I	TS 35A088I/HG	TD 15	TD 10P	
2FB320/APKT 1204	TS 40A115I	TS 35A088I/HG	TD 15	TD 10P	

Cutting Condition E287-E289

TRIOBALL

End mills



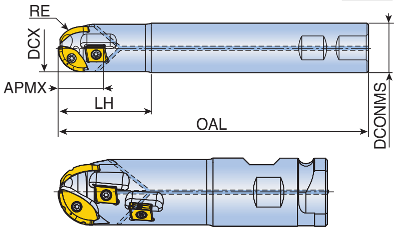


Fig.1

Fig.2

Designation	DCX	RE	DCONMS	OAL	LH	APMX	Fig.	Ball1	Qty	Ball2	Qty	Periphery	Qty
3F 32-39-W32-150	32	16	32	150	60	39	1	3FB320C-M E226	1	3FB320P-M E226	2	CNHX 131108T E246	2
32-39-W32-200	32	16	32	200	60	39	1		1		2		2
32-39-W32-250	32	16	32	250	60	39	1		1		2		2
50-54-W40-150	50	25	40	150	70	54	1	3FB500C-M E226	1	3FB500P-M E226	2	CNHX 160608T E246	2
50-80-W50-200	50	25	50	200	110	80	1		1		2		4
50-80-W50-250	50	25	50	250	110	80	1		1		2		4
3F 50-68-CN50.8-200	50	25	50.8	200	115	68	2		1		2		3
50-94-CN50.8-250	50	25	50.8	250	165	94	2		1		2		5

• When machining over 'APMX', please calculate Z=1 • Coolant though type

Spare parts

Designation	Screw	Wrench			
3F 32	TS 40093I	TD 15	-		
3F 50	TS 50115I	-	T-T20		

Cutting Condition E287-E289

End mills

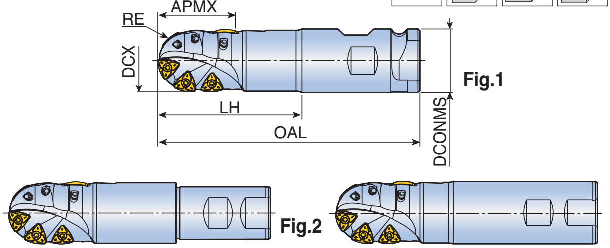


Fig.1

Fig.2

Fig.3

Designation		Flutes	Dimension (mm) DCX	RE	DCONMS	OAL	LH	APMX	Fig.	Insert
TDB50X	**59-CN50.8-L200**	6	50	25	50.8	200	110	59	1	6RBE 50... E233
	69-CN50.8-L250	7	50	25	50.8	250	160	69	1	
TDB50X	**59-W40-L200**	6	50	25	40	200	128	59	2	
	69-W40-L250	7	50	25	40	250	178	69	2	
	59-W42-L200	6	50	25	42	200	128	59	2	
	69-W42-L250	7	50	25	42	250	178	69	2	
	59-W50-L200	6	50	25	50	200	90	59	3	
	69-W50-L250	7	50	25	50	250	140	69	3	

Spare parts

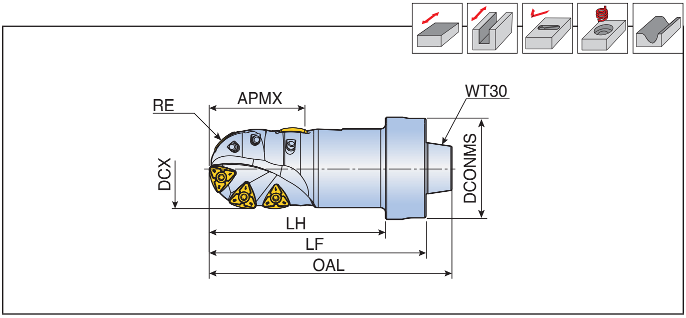
Designation	Screw	Wrench			
TDB50X	TS50B106I/HG	T-T20			

Cutting Condition
E287-E289

TDB50X-WT

CHASE2BALL

End mills



Designation		Dimension (mm)							Insert
		DCX	RE	DCONMS	OAL	LH	LF	APMX	
TDB50X 59-WT30-L150	6	50	25	63	150	109	134	59	6RBE 50...
69-WT30-L200	7	50	25	63	200	159	184	69	E233

Spare parts

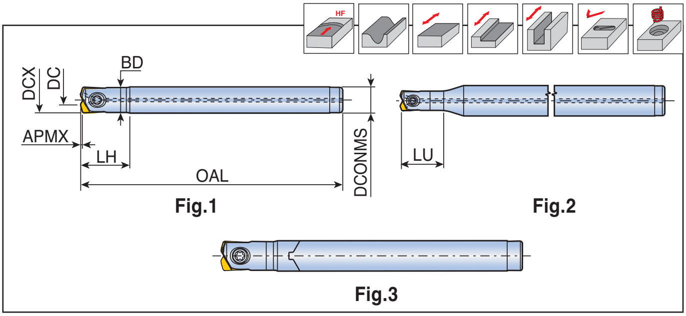
Designation	Screw	Wrench			
TDB50X-WT	TS50B106I/HG	T-T20			

Cutting Condition
E287-E289

THFN/THFN-CT

NANRUSH

High feed end mills



Designation		Dimension (mm)								Coolant hole	Fig.	Insert
		DCX	DC	DCONMS	BD	OAL	LH	LU	APMX			
THFN 060-06-L80	2	6	3	6	5.8	80	13	-	0.3	●	1	HFN 060...
060-10-L120	2	6	3	10	5.8	120	-	13	0.3	●	2	
080-08-L80	2	8	4	8	7.6	80	18	-	0.5	●	1	HFN 080...
080-12-L140	2	8	4	12	7.6	140	-	18	0.5	●	2	
THFN 060-06-CT-L80	2	6	3	6	5.8	80	20	-	0.3	x	3	HFN 060...
060-06-CT-L140	2	6	3	6	5.8	140	25	-	0.3	x	3	
080-08-CT-L80	2	8	4	8	7.6	80	20	-	0.5	x	3	HFN 080...
080-08-CT-L160	2	8	4	8	7.6	160	30	-	0.5	x	3	E247

• THFN-CT is carbide shank end mill

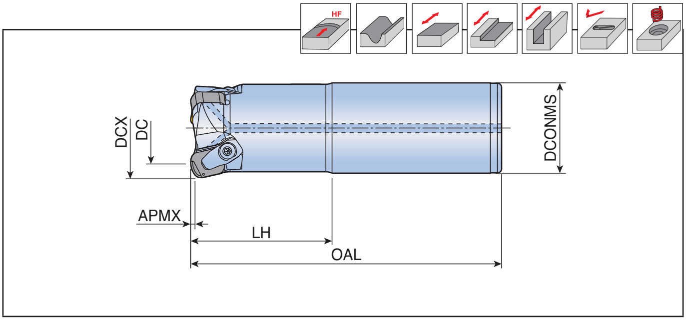
Spare parts

Designation	Screw	Wrench		Wrench handle	
THFN 060	TS 20F060A	TD 6	-	-	
THFN 080	TS 25F080A	-	TBLD T08-W4	THND 4W	

Cutting Condition E287-E289
Ramping Data E351

TEBN-09CH

High feed end mills



Designation	Number of teeth	Dimension (mm)						Air hole [1]	Insert
		DCX	DC	DCONMS	OAL	LH	APMX		
TEBN 225-25-09CH-L100	2	25	14.8	25	100	40	1.5	x	BNGX 0904...
325-25-09CH-L100	3	25	14.8	25	100	40	1.5	x	E245
332-32-09CH-L120	3	32	21.5	32	120	40	1.5	●	
440-32-09CH-L120	4	40	29.4	32	120	40	1.5	●	

- [1] Use only air (Coolant is prohibited)

Spare parts

Designation	Clamp	Screw	Snap ring	Wrench	
TEBN-09CH	CCL-3S	CLS-35A120	CSR 1.25	L-W 2	

Cutting Condition E287-E289
Ramping Data E367

TEPT-05/10

High feed end mills & modular heads

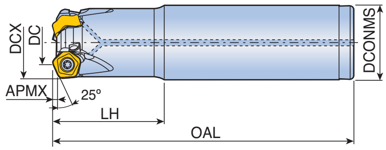


Fig.1

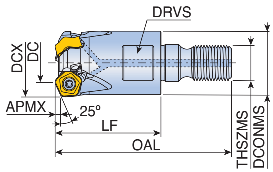


Fig.2

Designation		Dimension (mm)									Coolant hole	Fig.	Insert
		DCX	DC	DCONMS	LF	OAL	THSZMS	LH	DRVS	APMX			
TEPT 320-20-05-L150	3	20	11.9	20	-	150	-	50	-	1.5	●	1	PTKU 0503... E257
425-25-05-L150	4	25	16.8	25	-	150	-	50	-	1.5	●	1	
426-25-05-L200	4	26	17.8	25	-	200	-	30	-	1.5	●	1	
532-32-05-L200	5	32	23.8	32	-	200	-	50	-	1.5	●	1	
533-32-05-L200	5	33	24.8	32	-	200	-	30	-	1.5	●	1	
640-32-05-L200	6	40	31.8	32	-	200	-	30	-	1.5	●	1	
TEPT 320-M10-05	3	20	11.9	18	30	50	M10	-	15	1.5	●	2	
425-M12-05	4	25	16.8	21	35	57	M12	-	17	1.5	●	2	
532-M16-05	5	32	23.8	29	43	68	M16	-	25	1.5	●	2	
640-M16-05	6	40	31.8	29	43	68	M16	-	25	1.5	●	2	
TEPT 340-32-10-L200	3	40	23.5	32	-	200	-	40	-	3.0	●	1	PTKU 1006... E257
TEPT 340-M16-10	3	40	23.5	29	43	68	M16	-	25	3.0	●	2	

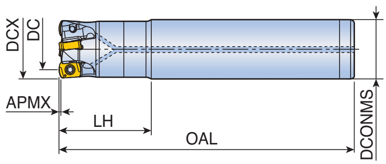
• Matched with T-FLEXTEC holder

Spare parts

Designation	Screw	Wrench		Wrench handle	
TEPT-05	TS 25D060/HG-P	TD 7P	-	-	
TEPT-10	TS 50D130/HG-P	-	TBLD T20P-W6	THND 6W	

Cutting Condition E287-E289
Ramping Data E349-E350

High feed end mills



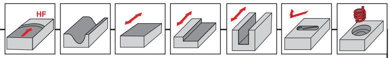
Designation		Dimension (mm)						Coolant hole	Insert
		DCX	DC	DCONMS	OAL	LH	APMX		
TEBL 108-08-04-L80	1	8	3.8	8	80	20	0.5	●	BLMP 0402... E243
210-10-04-L100	2	10	5.7	10	100	20	0.5	●	
211-10-04-L100	2	11	6.6	10	100	20	0.5	●	
312-12-04-L110	3	12	7.6	12	110	20	0.5	●	
313-12-04-L110	3	13	8.6	12	110	20	0.5	●	
416-16-04-L150	4	16	11.6	16	150	25	0.5	●	
417-16-04-L200	4	17	12.6	16	200	25	0.5	●	
520-20-04-L200	5	20	15.5	20	200	25	0.5	●	
521-20-04-L200	5	21	16.5	20	200	25	0.5	●	

Cutting Condition E287-E289

Ramping Data E352-E355

TEBL-M(S)-04

High feed modular heads



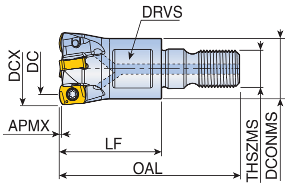


Fig.1

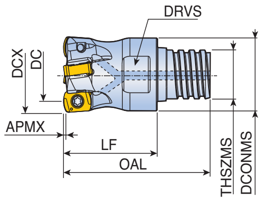
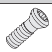


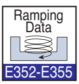
Fig.2

Designation		Dimension (mm)								Coolant hole	Fig.	Insert
		DCX	DC	DCONMS	LF	OAL	THSZMS	APMX	DRVS			
TEBL 210-M06-04	2	10	5.7	9.7	17	31.5	M06	0.5	8	●	1	BLMP 0402... E243
211-M06-04	2	11	6.6	9.7	17	31.5	M06	0.5	8	●	1	
312-M06-04	3	12	7.6	11	17	31.5	M06	0.5	8	●	1	
313-M06-04	3	13	8.6	11	17	31.5	M06	0.5	8	●	1	
416-M08-04	4	16	11.6	13	23	40.5	M08	0.5	10	●	1	
417-M08-04	4	17	12.6	13	23	40.5	M08	0.5	10	●	1	
520-M10-04	5	20	15.5	18	23	43	M10	0.5	15	●	1	
725-M12-04	7	25	20.6	21	27	49	M12	0.5	17	●	1	
832-M16-04	8	32	27.5	29	27	52	M16	0.5	25	●	1	
TEBL 210-S06-04	2	10	5.7	9.6	15	21.3	S06	0.5	8	●	2	
312-S08-04	3	12	7.6	11.5	16	23.5	S08	0.5	10	●	2	
416-S10-04	4	16	11.6	15.2	20	31.3	S10	0.5	13	●	2	

• Matched with T-FLEXTEC holder & MAXIRUSH holder

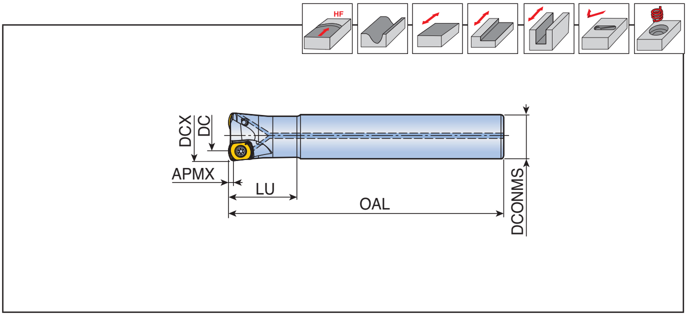
Spare parts

Designation	Screw 	Wrench 			
TEBL-04	TS 18041I/HG	TD 6P			



TEBL-06

High feed end mills



Designation		Z	Dimension (mm)						Coolant hole	Insert
			DCX	DC	DCONMS	OAL	LU	APMX		
TEBL	216-15-06-L150	2	16	9.4	15	150	40	0.7	●	BLMP 0603... E243
	216-16-06	2	16	9.4	16	150	40	0.7	●	
	216-16-06-S	2	16	9.4	16	100	30	0.7	●	
	217-16-06-S	2	17	10.1	16	100	30	0.7	●	
	217-16-06	2	17	10.1	16	150	40	0.7	●	
	217-16-06-L200	2	17	10.1	16	200	20	0.7	●	
	218-16-06	2	18	11.1	16	150	25	0.7	●	
	220-20-06-L200	2	20	12.4	20	200	80	1.0	●	
	320-19-06-L180	3	20	12.4	19	180	80	1.0	●	
	320-20-06-S	3	20	12.4	20	130	50	1.0	●	
	320-20-06	3	20	12.4	20	160	80	1.0	●	
	321-20-06-S	3	21	13.4	20	150	20	1.0	●	
	321-20-06-L200	3	21	13.4	20	200	20	1.0	●	
	325-25-06-L220	3	25	17.3	25	220	50	1.0	●	
	425-24-06-L180	4	25	17.3	24	180	60	1.0	●	
	425-25-06-S	4	25	17.3	25	140	60	1.0	●	
	425-25-06	4	25	17.3	25	180	60	1.0	●	
	425-25-06-L250	4	25	17.3	25	250	40	1.0	●	
	326-25-06-L200	3	26	18.3	25	200	30	1.0	●	
	326-25-06-L250	3	26	18.3	25	250	30	1.0	●	
	426-25-06-S	4	26	18.3	25	150	30	1.0	●	
	426-25-06-L200	4	26	18.3	25	200	30	1.0	●	
	426-25-06-L250	4	26	18.3	25	250	30	1.0	●	
	530-32-06-S	5	30	22.3	32	150	70	1.0	●	
	530-32-06-L200	5	30	22.3	32	200	120	1.0	●	
	432-32-06-S	4	32	24.3	32	150	70	1.0	●	
	532-32-06-S	5	32	24.3	32	150	70	1.0	●	
	532-32-06-L200	5	32	24.3	32	200	120	1.0	●	
	433-32-06-L220	4	33	25.3	32	220	40	1.0	●	
	433-32-06-L300	4	33	25.3	32	300	50	1.0	●	
	533-32-06-S	5	33	25.3	32	150	30	1.0	●	
	533-32-06-L200	5	33	25.3	32	200	40	1.0	●	
	533-32-06-L250	5	33	25.3	32	250	40	1.0	●	
	435-32-06-L200	4	35	27.3	32	200	50	1.0	●	
	435-32-06-L300	4	35	27.3	32	300	50	1.0	●	

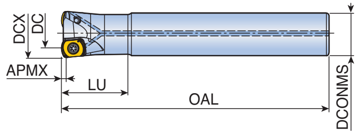
Cutting Condition E287-E289

Ramping Data E352-E355

TEBL-06

CHASE4FEED

High feed end mills



Designation	Z	DCX	DC	DCONMS	OAL	LU	APMX	Coolant hole	Insert
		Dimension (mm)							
TEBL 535-32-06-L200	5	35	27.3	32	200	50	1.0	●	BLMP 0603... E243
535-32-06-L300	5	35	27.3	32	300	50	1.0	●	
540-32-06-L220	5	40	32.2	32	220	40	1.0	●	
640-32-06-S	6	40	32.2	32	150	40	1.0	●	
640-32-06-L220	6	40	32.2	32	220	40	1.0	●	

Spare parts

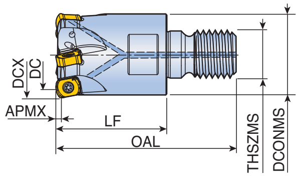
Designation	Screw	Wrench			
TEBL-06	TS 25064I/SG	TD 8P			

Cutting Condition E287-E289

Ramping Data E352-E355

TEBL-M-06

High feed modular heads



Designation		Dimension (mm)							Coolant hole	Insert
		DCX	DC	DCONMS	LF	OAL	THSZMS	APMX		
TEBL 216-M08-06	2	16	9.4	13	25	42.5	M08	0.7	●	BLMP 0603... E243
217-M08-06	2	17	10.1	13	25	42.5	M08	0.7	●	
218-M08-06	2	18	11.1	13	25	42.5	M08	0.7	●	
220-M10-06	2	20	12.4	18	30	50	M10	1.0	●	
320-M10-06	3	20	12.4	18	30	50	M10	1.0	●	
321-M10-06	3	21	13.4	18	30	50	M10	1.0	●	
322-M10-06	3	22	14.4	18	30	50	M10	1.0	●	
325-M12-06	3	25	17.3	21	35	57	M12	1.0	●	
425-M12-06	4	25	17.3	21	35	57	M12	1.0	●	
326-M12-06	3	26	18.3	21	35	57	M12	1.0	●	
426-M12-06	4	26	18.3	21	35	57	M12	1.0	●	
530-M16-06	5	30	22.3	29	40	65	M16	1.0	●	
432-M16-06	4	32	24.3	29	40	65	M16	1.0	●	
532-M16-06	5	32	24.3	29	40	65	M16	1.0	●	
433-M16-06	4	33	25.3	29	40	65	M16	1.0	●	
533-M16-06	5	33	25.3	29	40	65	M16	1.0	●	
435-M16-06	4	35	27.3	29	43	68	M16	1.0	●	
535-M16-06	5	35	27.3	29	43	68	M16	1.0	●	
640-M16-06	6	40	32.2	29	43	68	M16	1.0	●	
542-M16-06	5	42	34.2	29	43	68	M16	1.0	●	
642-M16-06	6	42	34.2	29	43	68	M16	1.0	●	

• Matched with T-FLEXTEC holder

Spare parts

Designation	Screw	Wrench			
TEBL-06	TS 25064I/SG	TD 8P			

Cutting Condition E287-E289

Ramping Data E352-E355

TEBL-09

High feed end mills

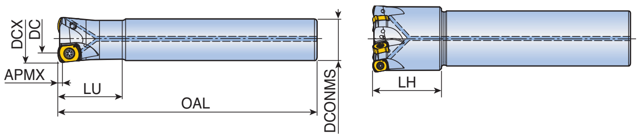


Fig.1

Fig.2

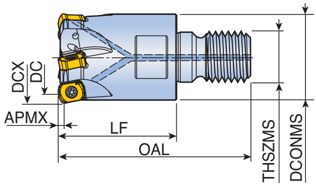
Designation		Dimension (mm)							Coolant hole	Fig.	Insert
		DCX	DC	DCONMS	OAL	LU	LH	APMX			
TEBL 225-25-09-L150	2	25	14.7	25	150	70	-	1.5	●	1	BLMP 0904... E243
225-25-09-L200	2	25	14.7	25	200	100	-	1.5	●	1	
325-25-09-L150	3	25	14.7	25	150	70	-	1.5	●	1	
325-25-09-L200	3	25	14.7	25	200	110	-	1.5	●	1	
326-25-09-L150	3	26	15.7	25	150	30	-	1.5	●	1	
326-25-09-L220	3	26	15.7	25	220	30	-	1.5	●	1	
330-32-09-L160	3	30	19.6	32	160	70	-	1.5	●	1	
330-32-09-L220	3	30	19.6	32	220	120	-	1.5	●	1	
332-32-09-L160	3	32	21.6	32	160	70	-	1.5	●	1	
332-32-09-L220	3	32	21.6	32	220	120	-	1.5	●	1	
432-32-09-L160	4	32	21.6	32	160	70	-	1.5	●	1	
432-32-09-L220	4	32	21.6	32	220	120	-	1.5	●	1	
433-32-09-L180	4	33	22.6	32	180	30	-	1.5	●	1	
433-32-09-L250	4	33	22.6	32	250	30	-	1.5	●	1	
440-32-09-L180	4	40	29.6	32	180	-	40	1.5	●	2	
440-32-09-L250	4	40	29.6	32	250	-	40	1.5	●	2	
540-32-09-L180	5	40	29.6	32	180	-	40	1.5	●	2	
540-32-09-L250	5	40	29.6	32	250	-	40	1.5	●	2	

Cutting Condition E287-E289
Ramping Data E352-E355

TEBL-M-09

CHASE4FEED

High feed modular heads



Designation		Dimension (mm)							Coolant hole	Insert
		DCX	DC	DCONMS	LF	OAL	THSZMS	APMX		
TEBL 225-M12-09	2	25	14.7	21	35	57	M12	1.5	●	BLMP 0904...
325-M12-09	3	25	14.7	21	35	57	M12	1.5	●	E243
326-M12-09	3	26	15.7	21	35	57	M12	1.5	●	
330-M16-09	3	30	19.6	29	43	68	M16	1.5	●	
332-M16-09	3	32	21.6	29	43	68	M16	1.5	●	
432-M16-09	4	32	21.6	29	43	68	M16	1.5	●	
433-M16-09	4	33	22.6	29	43	68	M16	1.5	●	
335-M16-09	3	35	24.6	29	43	68	M16	1.5	●	
435-M16-09	4	35	24.6	29	43	68	M16	1.5	●	
440-M16-09	4	40	29.6	29	43	68	M16	1.5	●	
540-M16-09	5	40	29.6	29	43	68	M16	1.5	●	
542-M16-09	5	42	31.6	29	43	68	M16	1.5	●	

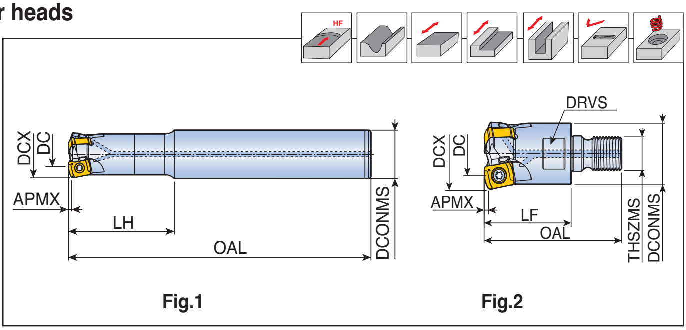
• Matched with T-FLEXTEC holder

Spare parts

Designation	Screw	Wrench			
TEBL-09	TS 35A088I/HG	TD 10P			

Cutting Condition E287-E289
Ramping Data E352-E355

High feed end mills & modular heads



Designation		Dimension (mm)									Coolant hole	Fig.	Insert
		DCX	DC	DCONMS	OAL	THSZMS	LH	LF	DRVS	APMX			
TEBL 230-32-11-L150	2	30	14.7	32	150	-	70	-	-	2.0	●	1	BLMP 1105... E243
232-32-11-L150	2	32	16.6	32	150	-	70	-	-	2.0	●	1	
232-32-11-L200	2	32	16.6	32	200	-	70	-	-	2.0	●	1	
332-32-11-L200	3	32	16.6	32	200	-	70	-	-	2.0	●	1	
233-32-11-L200	2	33	17.6	32	200	-	40	-	-	2.0	●	1	
233-32-11-L250	2	33	17.6	32	250	-	50	-	-	2.0	●	1	
333-32-11-L250	3	33	17.6	32	250	-	50	-	-	2.0	●	1	
335-32-11-L200	3	35	19.5	32	200	-	40	-	-	2.0	●	1	
340-32-11-L150	3	40	24.4	32	150	-	40	-	-	2.0	●	1	
340-32-11-L200	3	40	24.4	32	200	-	40	-	-	2.0	●	1	
TEBL 230-M16-11	2	30	14.7	29	68	M16	-	43	25	2.0	●	2	
232-M16-11	2	32	16.6	29	68	M16	-	43	25	2.0	●	2	
233-M16-11	2	33	17.6	29	68	M16	-	43	25	2.0	●	2	
335-M16-11	3	35	19.5	29	68	M16	-	43	25	2.0	●	2	
340-M16-11	3	40	24.4	29	68	M16	-	43	25	2.0	●	2	
342-M16-11	3	42	26.4	29	68	M16	-	43	25	2.0	●	2	

- Matched with T-FLEXTEC holder

Spare parts

Designation	Screw	Wrench	Wrench handle		
TEBL-11	TS 50A121I/HG	TBLD T20-W6	THND 6W		

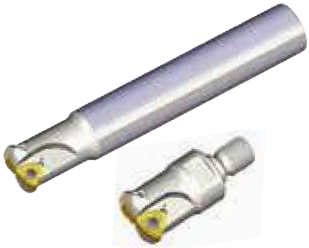
Cutting Condition E287-E289

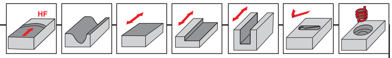
Ramping Data E352-E355

TEBL-13

CHASE2FEED

High feed end mills & Modular heads





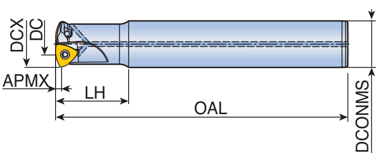


Fig.1

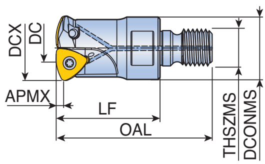


Fig.2

Designation		Dimension (mm)								Coolant hole	Fig.	Insert
		DCX	DC	DCONMS	OAL	THSZMS	LH	LF	APMX			
TEBL 232-32-13-L150	2	32	12.9	32	150	-	50	-	2.0	●	1	BLMP 1306... E244
232-32-13-L200	2	32	12.9	32	200	-	80	-	2.0	●	1	
232-32-13-L	2	32	12.9	32	200	-	120	-	2.0	●	1	
233-32-13-L200	2	33	14.3	32	200	-	50	-	2.0	●	1	
233-32-13-L250	2	33	14.3	32	250	-	50	-	2.0	●	1	
235-32-13-L200	2	35	16.1	32	200	-	30	-	2.0	●	1	
240-42-13-XL	2	40	20.7	42	300	-	120	-	2.0	●	1	
340-32-13-L150	3	40	20.7	32	150	-	40	-	2.0	●	1	
340-32-13-L200	3	40	20.7	32	200	-	70	-	2.0	●	1	
340-42-13-S	3	40	20.7	42	150	-	70	-	2.0	●	1	
TEBL 232-M16-13	2	32	12.9	30	75	M16	-	50	2.0	●	2	
233-M16-13	2	33	14.3	30	75	M16	-	50	2.0	●	2	
235-M16-13	2	35	16.1	30	75	M16	-	50	2.0	●	2	
340-M16-13	3	40	20.7	30	75	M16	-	50	2.0	●	2	
342-M16-13	3	42	22.6	30	75	M16	-	50	2.0	●	2	

• Matched with T-FLEXTEC holder

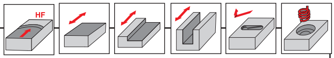
Spare parts

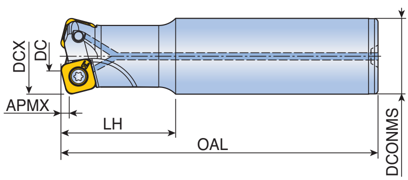
Designation	Screw	Wrench			
TEBL-13	TS50B106I/HG	T-T20			

Cutting Condition E287-E289

Ramping Data E356

High feed end mills





Designation		Z	Dimension (mm)						Coolant hole	Insert
			DCX	DC	DCONMS	OAL	LH	APMX		
TESB	225-25-09-L150	2	25	10.8	25	150	70	1.2	●	SBMT 0904... E263
	225-25-09-L200	2	25	10.8	25	200	70	1.2	●	
	325-25-09-L150	3	25	10.8	25	150	70	1.2	●	
	325-25-09-L200	3	25	10.8	25	200	70	1.2	●	
	226-25-09-L200	2	26	11.7	25	200	30	1.2	●	
	226-25-09-L250	2	26	11.7	25	250	30	1.2	●	
	326-25-09-L150	3	26	11.7	25	150	30	1.2	●	
	326-25-09-L200	3	26	11.7	25	200	30	1.2	●	
	326-25-09-L250	3	26	11.7	25	250	30	1.2	●	
	330-32-09-L200	3	30	15.5	32	200	70	1.2	●	
	332-32-09-L160	3	32	17.4	32	160	70	1.2	●	
	332-32-09-L200	3	32	17.4	32	200	70	1.2	●	
	332-32-09-L300	3	32	17.4	32	300	70	1.2	●	
	432-32-09-L160	4	32	17.4	32	160	70	1.2	●	
	432-32-09-L220	4	32	17.4	32	220	70	1.2	●	
	233-32-09-L250	2	33	18.4	32	250	30	1.2	●	
	333-32-09-L250	3	33	18.4	32	250	30	1.2	●	
	333-32-09-L300	3	33	18.4	32	300	30	1.2	●	
	433-32-09-L180	4	33	18.4	32	180	30	1.2	●	
	433-32-09-L250	4	33	18.4	32	250	30	1.2	●	
	335-32-09-L250	3	35	20.4	32	250	30	1.2	●	
	440-32-09-L250	4	40	25.4	32	250	40	1.2	●	
	440-32-09-L300	4	40	25.4	32	300	40	1.2	●	
	540-32-09-L180	5	40	25.4	32	180	40	1.2	●	
	540-32-09-L250	5	40	25.4	32	250	40	1.2	●	
TESB	232-32-13-L150	2	32	11.6	32	150	50	2.0	●	SBMT 1306... E263
	232-32-13-L200	2	32	11.6	32	200	80	2.0	●	
	233-32-13-L200	2	33	12.6	32	200	30	2.0	●	
	233-32-13-L250	2	33	12.6	32	250	50	2.0	●	
	235-32-13-L200	2	35	14.6	32	200	30	2.0	●	
	340-32-13-L150	3	40	19.5	32	150	30	2.0	●	
	340-32-13-L200	3	40	19.5	32	200	30	2.0	●	
	342-32-13-L200	3	42	21.5	32	200	30	2.0	●	

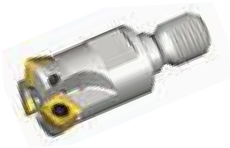
Cutting Condition E287-E289

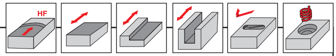
Ramping Data E357-E358

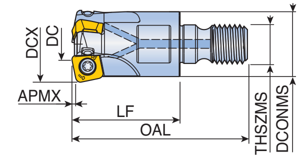
TESB-M-09/13

CHASEFEED

High feed modular heads







Designation		Dimension (mm)							Coolant hole	Insert
		DCX	DC	DCONMS	LF	OAL	THSZMS	APMX		
TESB 225-M12-09	2	25	10.8	21	35	57	M12	1.2	●	SBMT 0904...
325-M12-09	3	25	10.8	21	35	57	M12	1.2	●	E263
332-M16-09	3	32	17.4	29	43	68	M16	1.2	●	
432-M16-09	4	32	17.4	29	43	68	M16	1.2	●	
435-M16-09	4	35	20.4	29	43	68	M16	1.2	●	
440-M16-09	4	40	25.4	29	43	68	M16	1.2	●	
540-M16-09	5	40	25.4	29	43	68	M16	1.2	●	
542-M16-09	5	42	27.4	29	43	68	M16	1.2	●	
TESB 232-M16-13	2	32	11.6	29	50	75	M16	2.0	●	SBMT 1306...
233-M16-13	2	33	12.6	29	50	75	M16	2.0	●	E263
340-M16-13	3	40	19.5	29	50	75	M16	2.0	●	
342-M16-13	3	42	21.5	29	50	75	M16	2.0	●	

• Matched with T-FLEXTEC holder

Spare parts

Designation	Screw	Wrench			
TESB-09	TS 35A088I/HG	TD 10P	-		
TESB-13	TS 50115I	-	T-T20		

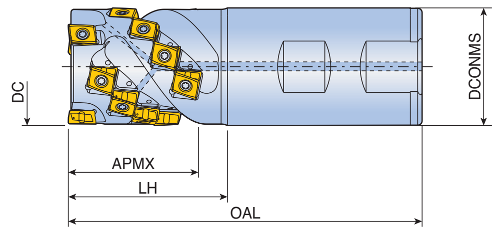
Cutting Condition E287-E289

Ramping Data E357-E358

4T-TEF-05/09

TANGSFEED

Extended flute cutters



90°

Designation		No. of insert	Dimension (mm)					Coolant hole	Insert
			DC	DCONMS	OAL	LH	APMX		
4T-TEF D16-15-W16-05	2	8	16	16	80	28	15	●	LPK(H)U 0502... E251
D20-23-W20-05	3	18	20	20	85	33	23	●	
D25-27-W25-05	4	28	25	25	95	35	27	●	
4T-TEF D25-36-W25-09	2	10	25	25	100	43	36	●	LPK(H)U 0904... E251
D32-36-W32-09	3	15	32	32	105	44	36	●	
D32-43-W32-09	3	18	32	32	115	52	43	●	
D40-43-W40-09	3	18	40	40	125	54	43	●	
D40-51-W40-09	3	21	40	40	135	64	51	●	

Spare parts

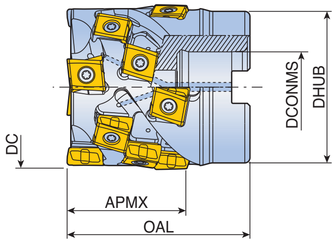
Designation	Screw	Wrench		Wrench handle	
4T-TEF-05	TS 18041I/SG-P	TD 6P	-	-	
4T-TEF-09	TS 30D082-P	-	TBLD T08P-W4	THND 4W	

Cutting Condition E287-E289

4T-TES-14

Extended flute cutters

90°



Designation		No. of insert	Dimension (mm)					Coolant hole	Kg	Mounting bolt	Insert
			DC	DCONMS	DHUB	OAL	APMX				
4T-TES D50-34-22R-14	3	9	50	22	45	55	34	●	0.5	SH M10x40	LPKU 1407... E251
D50-45-22R-14	3	12	50	22	45	65	45	●	0.6	SH M10x50	
D63-45-27R-14	4	16	63	27	58	70	45	●	1.1	SH M12x50	
D63-56-27R-14	4	20	63	27	58	80	56	●	1.3	SH M12x60	
D80-56-32R-14	5	25	80	32	74	85	56	●	2.3	SH M16x60	
D100-56-40R-14	6	30	100	40	94	90	56	●	4.1	SH M20x60	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench	Wrench handle		
4T-TES-14	TS 40G110I	TBLD T15-W6	SW6-T		

Cutting Condition E287-E289

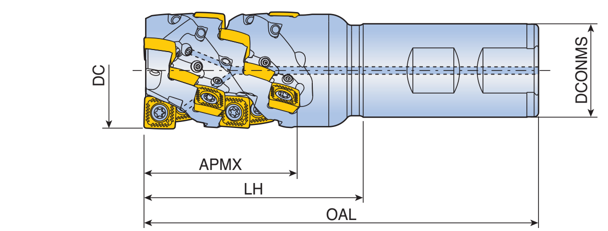
Arbor Style E290-E291

4S-TEF-11V

CHASE QUAD

Extended flute cutters

90°



Designation		No. of insert	Dimension (mm)					Coolant hole	Insert
			DC	DCONMS	OAL	LH	APMX		
4S-TEF- D32-52-W32-11V-2F	2	12	32	32	135	70	52	●	SVK(H)T 1145...
D40-52-W32-11V-3F	3	18	40	32	135	75	52	●	E274
D40-60-W32-11V-3F	3	21	40	32	180	85	60	●	
D50-52-W40-11V-4F	4	24	50	40	145	75	52	●	
D50-77-W40-11V-4F	4	36	50	40	170	100	77.9	●	

Spare parts

Designation	Screw	Wrench	Wrench handle	Coolant Nozzle	
4S-TEF-11V	TS 40093I/HG	TBLD T15-W6	THND 6W	SS 3003-06C	

Cutting Condition
E287-E289

ADVANCE MACHINING
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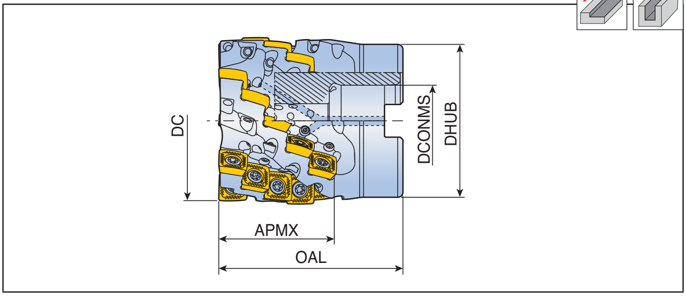
4S-TES-11V

Extended flute cutters

90°



Designation		No. of insert	Dimension (mm) DC	DCONMS	DHUB	OAL	APMX	Coolant hole	Arbor style	Kg	Mounting bolt	Insert
4S-TES-D40-27-16R-11V-3F	3	9	40	16	38	55	27	●	A	0.3	SH M8x40	SVK(H)T 1145... E274
D50-43-22R-11V-4F	4	20	50	22	45	65	43	●	A	0.6	SH M10x50	
D50-69-22R-11V-4F	4	32	50	22	45	90	69	●	A	0.8	SH M10x80	
D63-60-27R-11V-5F	5	35	63	27	58	85	60	●	A	1.2	SH M12x60	
D63-69-27R-11V-5F	5	40	63	27	58	93	69	●	A	1.4	SH M12x80	
D80-76-32R-11V-6F	6	54	80	32	76	100	76	●	A	2.6	SH M16x80	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench	Wrench handle	Coolant Nozzle	
4S-TES-11V	TS 40093I/HG	TBLD T15-W6	SW6-T	SS 3003-06C	

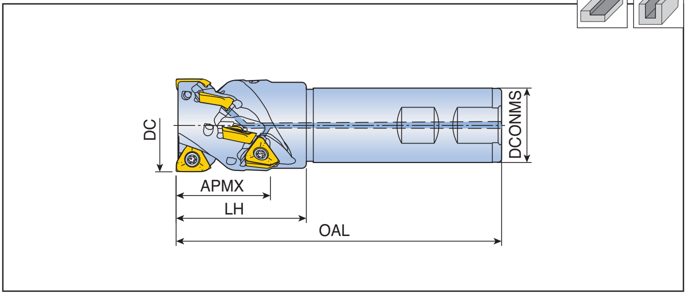
Cutting Condition E287-E289

Arbor Style E290-E291

3P TEF-06/10/15/19

Extended flute cutters

90°



Designation			No. of insert	Dimension (mm)					Coolant hole	Insert
				DC	DCONMS	OAL	LH	APMX		
3P TEF	**D20-20-W20-06**	2	10	20	20	85	33	20	x	3PK(H)T 0603...
	D25-24-W25-06	3	18	25	25	95	39	24	●	
	D32-32-W32-06	4	32	32	32	105	43	32	●	
3P TEF	**D32-42-W32-10**	2	14	32	32	120	56	42	●	3PK(H)T 1004...
	D40-42-W32-10	3	21	40	32	130	56	42	●	
3P TEF	**D40-40-W32-15**	2	8	40	32	140	56	40	●	3PK(H)T 1505...
3P TEF	**D50-55-W40-19**	2	8	50	40	150	75	55	●	3PK(H)T 1906...

E227-E228

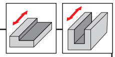
Spare parts

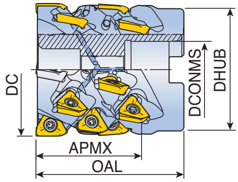
Designation	Screw	Wrench			
3P TEF-06	TS 20043I/HG-P	TD 6P	-		
3P TEF-10	TS 25C065I/HG	TD 8	-		
3P TEF-15	TS 40B100I	TD 15	-		
3P TEF-19	TS 45120I	-	T-T20		

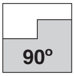
Cutting Condition
E287-E289

3P TES-10/15/19

Extended flute cutters



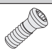
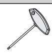




Designation		No. of insert	DC	DCONMS	DHUB	OAL	APMX	Coolant hole	Kg	Mounting bolt	Insert
			Dimension (mm)								
3P TES D50-48-22R-10	4	32	50	22	45	65	48	●	0.6	SH M10x50	3PK(H)T 1004...
D63-54-27R-10	4	36	63	27	58	75	54	●	1.2	SH M12x50	
3P TES D50-40-22R-15-2F	2	8	50	22	45	65	40	●	0.6	SH M10x50	3PK(H)T 1505...
D50-40-22R-15	3	12	50	22	45	65	40	●	0.6	SH M10x50	
D63-50-27R-15	4	20	63	27	58	70	50	●	1.0	SH M12x50	
D80-60-32R-15	4	24	80	32	77	75	60	●	2.0	SH M16x50	
D100-78-40R-15-4F	4	32	100	40	96	110	78	●	5.0	SH M20x80	
3P TES D63-42-27R-19	3	9	63	27	58	70	42	●	1.0	SH M12x50	3PK(H)T 1906... E227-E228
D63-42-27R-19-4F	4	12	63	27	58	70	42	●	1.0	SH M12x50	
D80-56-32R-19	4	16	80	32	76	75	56	●	1.7	SH M16x50	
D100-83-40R-19-4F	4	24	100	40	96	110	83	●	4.4	SH M20x80	
D100-83-40R-19	5	30	100	40	96	110	83	●	4.5	SH M20x80	
D100-83-40R-19-6F	6	36	100	40	96	110	83	●	4.6	SH M20x80	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

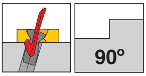
Spare parts

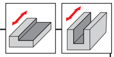
Designation	Screw	Wrench			
					
3P TES-10	TS 25C065I/HG	TD 8	-		
3P TES-15	TS 40B100I	TD 15	-		
3P TES-19	TS 45120I	-	T-T20		

Cutting Condition E287-E289
Arbor Style E290-E291

TEF/TES-TN18

Extended flute cutters





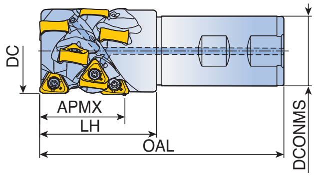


Fig.1

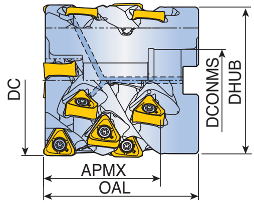


Fig.2

Designation		No. of insert	Dimension (mm) DC	DCONMS	OAL	LH	APMX	Coolant hole	Fig.	Insert
TEF D50-48-W40-TN18-2F	2	8	50	40	140	67	48	●	1	TNMX 1806... E277
D50-48-W40-TN18	3	12	50	40	140	67	48	●	1	

Designation		No. of insert	Dimension (mm) DC	DCONMS	DHUB	OAL	APMX	Coolant hole	Kg	Fig.	Mounting bolt	Insert
TES D63-48-27R-TN18-2F	2	8	63	27	60	70	48	●	1.2	2	SH M12x50	TNMX 1806... E277
D63-48-27R-TN18	3	12	63	27	60	70	48	●	1.1	2	SH M12x50	
D80-60-32R-TN18	4	20	80	32	76	80	60	●	2.2	2	SH M16x60	
D100-71-40R-TN18-4F	4	24	100	40	96	100	71	●	4.5	2	SH M20x70	
D100-71-40R-TN18	5	30	100	40	96	100	71	●	4.4	2	SH M20x70	
D100-71-40R-TN18-6F	6	36	100	40	96	100	71	●	4.4	2	SH M20x70	

Spare parts

Designation	Screw	Wrench			
TEF/TES-TN18	TS 40B100I	T-T15			

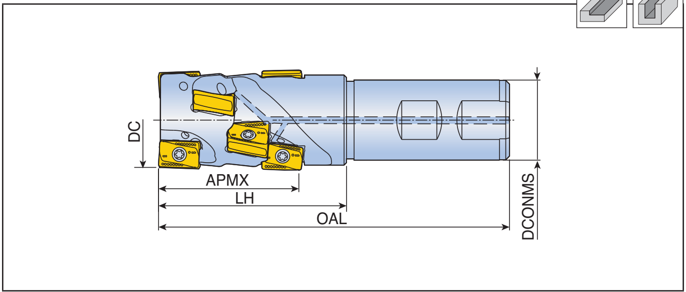
Cutting Condition E287-E289

Arbor Style E290-E291

TEF-AN11/16

Extended flute cutters

90°



Designation		No. of insert	DC	DCONMS	OAL	LH	APMX	Coolant hole	Insert
			Dimension (mm)						
TEF D32-40-W32-AN11	2	8	32	32	110	48	40	●	ANM(H)X 1106···
D40-40-W32-AN11	3	12	40	32	125	50	40	●	E235
TEF D40-42-W32-AN16	2	6	40	32	120	55	42	●	ANM(H)X 1607···
D40-56-W32-AN16	2	8	40	32	140	75	56	●	E235
D50-56-W40-AN16	3	12	50	40	140	70	56	●	

Spare parts

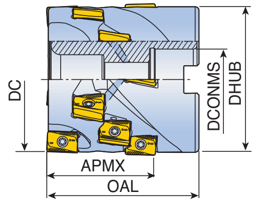
Designation	Screw	Wrench			
TEF-AN11	TS 35A088I/HG	TD 10P	-		
TEF-AN16	TS 40120I/HG	-	T-T15		

Cutting Condition
E287-E289

TES-AN11/16

CHASE2MILL

Extended flute cutters



90°

Designation		No. of insert	Dimension (mm)					Coolant hole	Kg	Mounting bolt	Insert
			DC	DCONMS	DHUB	OAL	APMX				
TES D50-40-22R-AN11	3	12	50	22	45	60	40	●	0.6	SH M10x40	ANM(H)X 1106··· E235
D63-60-27R-AN11	4	24	63	27	60	80	60	●	1.3	SH M12x60	
D80-60-32R-AN11	5	30	80	32	76	80	60	●	2.3	SH M16x60	
TES D50-42-22R-AN16	2	6	50	22	47	65	42	●	0.7	SH M10x40	ANM(H)X 1607··· E235
D63-42-27R-AN16	3	9	63	27	60.5	70	42	●	1.1	SH M12x50	
D63-56-27R-AN16	3	12	63	27	60.5	80	56	●	1.3	SH M12x50	
D80-56-32R-AN16	4	16	80	32	76.5	80	56	●	2.2	SH M16x50	
D100-69-40R-AN16	5	25	100	40	96.4	100	69	●	4.5	SH M20x60	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench			
TES-AN11	TS 35A088I/HG	TD 10P	-		
TES-AN16	TS 40120I/HG	-	T-T15		

Cutting Condition E287-E289

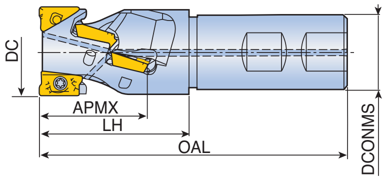
Arbor Style E290-E291

TEF-AP(AX)

CHASEMILL

Extended flute cutters

90°



Designation			No. of insert	DC	DCONMS	OAL	LH	APMX	Coolant hole	Insert
TEF	**D16-16-W16-AX06**	2	6	16	16	80	28	16	x	AXM(C)T 0602... E242
	D20-21-W20-AX06	3	12	20	20	85	33	21	●	
	D25-26-W25-AX06	4	20	25	25	95	38	26	●	
2S-TEF	**D20-25-W20-AP09**	1	3	20	20	110	38	26	●	APK(C)T 09T3... E236
	D25-42-W25-AP09	2	10	25	25	115	48	42	●	
	D32-42-W32-AP09	2	10	32	32	120	51	42	●	
TEF	**D25-34-W25-AP12**	2	6	25	25	120	47	34	●	APK(C)T 1204... E237
	D32-45-W32-AP12	2	8	32	32	120	58	45	●	
	D40-45-W32-AP12	3	12	40	32	140	65	45	●	
TEF	**D32-30-W32-AP17**	2	4	32	32	120	50	30	●	APK(C)T 1705/1706... E238-E239
	D40-44-W32-AP17	2	6	40	32	140	65	44	●	

Dimension (mm): DC, DCONMS, OAL, LH, APMX

Spare parts

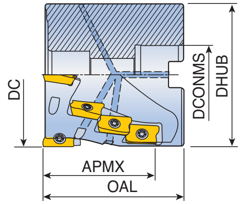
Designation	Screw	Wrench			
TEF-AX06	TS 18041 I/HG	TD 6P			
2S-TEF-AP09	TS 25055I/HG	TD 8			
TEF-AP12(Ø16-Ø25)	TS 35A070I/HG	TD 10P			
TEF-AP12(Ø32-)	TS 35A088I/HG	TD 10P			
TEF-AP17	TS 40093I/HG	TD 15			

Cutting Condition E287-E289

TES-AP12/17

Extended flute cutters

90°



Designation		No. of insert	DC	DCONMS	DHUB	OAL	APMX	Coolant hole	Kg	Mounting bolt	Insert
TES D50-45-22R-AP12	4	16	50	22	47	65	45	●	0.6	SH M10x40	APK(C)T 1204... E237
D63-56-27R-AP12	5	25	63	27	60	75	56	●	1.2	SH M10x50	
TES D50-44-22-AP17	2	6	50	22	48.2	60	44	●	0.5	SH M10x40	APK(C)T 1705 /1706... E238-E239
D63-44-27-AP17	3	9	63	27	60.8	63	44	●	0.9	SH M12x40	
D63-44-27-AP17-4F	4	12	63	27	60.8	63	44	●	0.9	SH M12x40	
D80-58-32-AP17	4	16	80	32	78.4	75	58	●	1.9	SH M16x50	
D100-88-40-AP17-4F	4	24	100	40	97.4	110	88	●	4.4	SH M20x80	
D100-88-40-AP17	5	30	100	40	97.4	110	88	●	4.8	SH M20x80	
D100-88-40-AP17-6F	6	36	100	40	97.4	110	88	●	4.8	SH M20x80	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench			
TES-AP12	TS 35A088I/HG	TD 10P	-		
TES-AP17	TS 40093I/HG	-	T-T15		

Cutting Condition E287-E289

Arbor Style E290-E291

CHASEQUAD

Extended flute cutters

90°

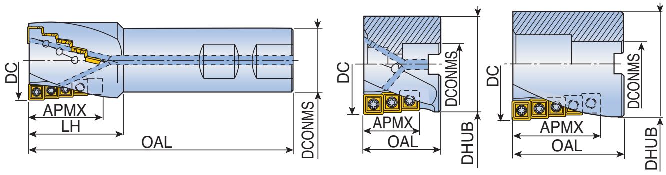


Fig.1 Fig.2 Fig.3

Designation		No. of insert	Dimension (mm) DC	DCONMS	OAL	LH	APMX	Coolant hole	Fig.	Insert
TEF D32-23-W32-09	2	6	32	32	120	40	23.8	●	1	SPMG(T) 090408-EM
D40-38-W32-11	2	8	40	32	130	60	38.9	●	1	SPMG(T)110408-EM
D50-48-W40-11	3	15	50	40	140	70	48.4	●	1	E271
D50-48-W42-11	3	15	50	42	140	70	48.4	●	1	

Designation		No. of insert	Dimension (mm) DC	DCONMS	DHUB	OAL	APMX	Coolant hole	Fig.	Mounting bolt	Insert
TES D50-29-22-11	3	9	50	22	47.3	52	29.0	●	2	SH M10x30	SPMG(T) 110408-EM
D63-35-27-11	4	16	63	27	60.5	55	35.0	●	2	SH M12x35	
D80-47-32-14	4	16	80	32	77.2	65	47.0	●	2	SH M16x40	SPMG(T)140508-EM
D100-60-40-14	5	25	100	40	97.1	88	60.0	x	3	-	
TES D63-35-25.4-11	4	16	63	25.4	60.5	55	35.0	●	2	SH M12x35	SPMG(T) 110408-EM
D80-47-31.75-14	4	16	80	31.75	77.2	65	47.0	●	2	SH M16x40	SPMG(T)140508-EM
D100-60-38.1-14	5	25	100	38.1	97.1	88	60.0	x	3	-	E271

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench			
TEF (Ø32)	TS 35088I	TD 10	-		
TEF (Ø40-Ø50)	TS 40093I	TD 15	-		
TES (Ø50-Ø63)	TS 40093I	TD 15	-		
TES (Ø80-Ø100)	TS 50A121I/HG	-	T-T20		

Cutting Condition E287-E289

Arbor Style E290-E291

TaeguTec Member IMC Group

TSM-W-TS16

Slotting cutters: End mills

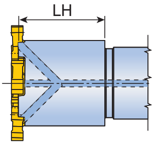


Fig.1

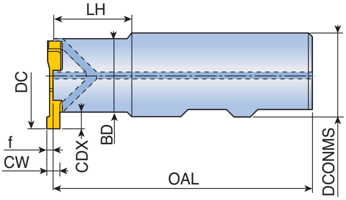


Fig.2

Designation	CW (mm)	Z	Dimension (mm) DC	DCONMS	BD	OAL	LH	Coolant hole	Fig.	Kg	Insert
TSM D32-W25-3Z-TS16	1.20-4.0	3	32.2	25	21.7	110	52.3	●	2	0.34	TS16-1.2–4.0
D32-W25-3Z-B-TS16	4.01-6.0	3	32.2	25	21.7	110	52.3	●	2	0.46	TS16-4.01–6.0
D40-W25-4Z-TS16	1.20-4.0	4	40.0	25	29.7	110	30.0	●	1	0.44	TS16-1.2–4.0
D40-W25-4Z-B-TS16	4.01-6.0	4	40.0	25	29.7	110	30.0	●	1	0.53	TS16-4.01–6.0
D50-W32-6Z-TS16	1.20-4.0	6	50.0	32	39.7	110	30.0	●	1	0.75	TS16-1.2–4.0

E279

• f, CDX: Please refer to insert data

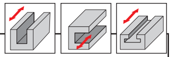
Spare parts

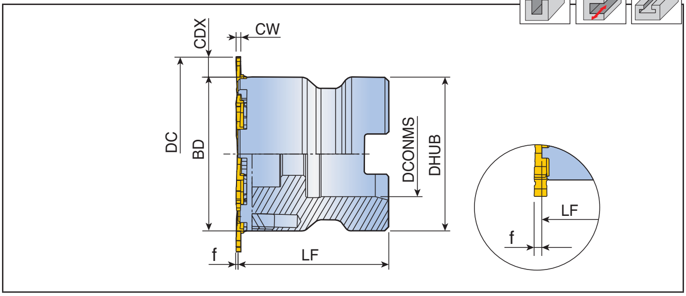
Designation	Screw	Wrench	Wrench handle		
TSM D32-W25-3Z-TS16	TS 40097I-N3.5	BLD T15/S7	SW6-T		
TSM D32-W25-3Z-B-TS16	TS 40097I	BLD T15/S7	SW6-T		
TSM D40-W25-4Z-TS16	TS 40097I-N3.5	BLD T15/S7	SW6-T		
TSM D40-W25-4Z-B-TS16	TS 40097I	BLD T15/S7	SW6-T		
TSM D50-W32-6Z-TS16	TS 40097I-N3.5	BLD T15/S7	SW6-T		

Cutting Condition
E287-E289

TSM-TS16

Slotting cutters: Flange type



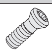


Designation	CW (mm)	Teeth	DC	DCONMS	DHUB	BD	LF	Arbor style	Kg	Insert
			Dimension (mm)							
TSM D50-22R-6Z-TS16	1.20-4.0	6	50	22	39.7	39.7	39	A	0.24	TS16-1.20–4.0
D50-22R-6Z-B-TS16	4.01-6.0	6	50	22	39.7	39.7	39	A	0.24	TS16-4.01–6.0
D63-22R-8Z-TS16	1.20-4.0	8	63	22	40.0	52.7	39	A	0.40	TS16-1.20–4.0
D63-22R-8Z-B-TS16	4.01-6.0	8	63	22	40.0	52.7	39	A	0.27	TS16-4.01–6.0
D80-27R-11Z-TS16	1.20-4.0	11	80	27	69.7	69.7	49	B	0.40	TS16-1.20–4.0
D80-27R-11Z-B-TS16	4.01-6.0	11	80	27	69.7	69.7	49	B	0.95	TS16-4.01–6.0

E279

• f, CDX: Please refer to insert data

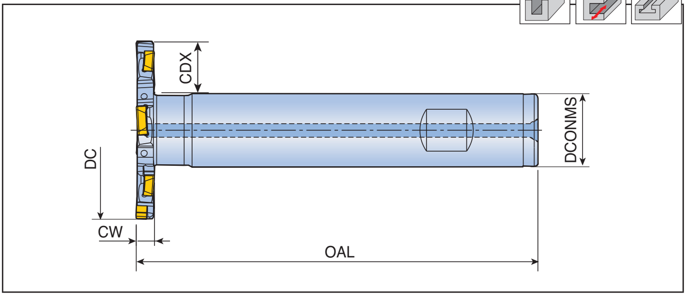
Spare parts

Designation	Screw	Wrench	Wrench handle		
					
TSM D50-22R-6Z-TS16	TS 40097I-N3.5	BLD T15/S7	SW6-T		
TSM D50-22R-6Z-B-TS16	TS 40097I	BLD T15/S7	SW6-T		
TSM D63-22R-8Z-TS16	TS 40097I-N3.5	BLD T15/S7	SW6-T		
TSM D63-22R-8Z-B-TS16	TS 40097I	BLD T15/S7	SW6-T		
TSM D80-27R-11Z-TS16	TS 40097I-N3.5	BLD T15/S7	SW6-T		
TSM D80-27R-11Z-B-TS16	TS 40097I	BLD T15/S7	SW6-T		

Cutting Condition E287-E289
Arbor Style E290-E291

TSM-W-SL

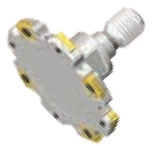
Slotting cutters: End mills

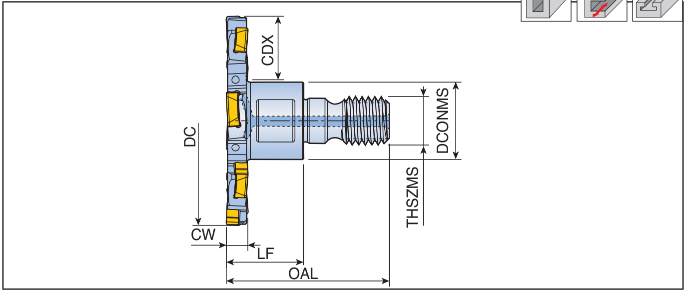


Designation	CW (mm)		DC	DCONMS	OAL	CDX	Coolant hole	Insert
			Dimension (mm)					
TSM D25-03-W12-SL18	3	1+1	25	12	90	6.5	●	SLOT 018... E266
D32-03-W16-SL18	3	2+2	32	16	90	8.0	●	
D40-03-W16-SL18	3	3+3	40	16	105	12.0	●	
D50-03-W20-SL18	3	4+4	50	20	110	15.0	●	
D63-03-W20-SL18	3	5+5	63	20	110	21.5	●	
TSM D25-04-W12-SL23	4	1+1	25	12	90	6.5	●	SLOT 023... E266
D32-04-W16-SL23	4	2+2	32	16	90	8.0	●	
D40-04-W16-SL23	4	3+3	40	16	105	12.0	●	
D50-04-W20-SL23	4	4+4	50	20	110	15.0	●	
D63-04-W20-SL23	4	5+5	63	20	110	21.5	●	
TSM D25-05-W12-SL28	5	1+1	25	12	90	6.5	●	SLOT 028... E266
D32-05-W16-SL28	5	2+2	32	16	90	8.0	●	
D40-05-W16-SL28	5	3+3	40	16	105	12.0	●	
D50-05-W20-SL28	5	4+4	50	20	110	15.0	●	
D63-05-W20-SL28	5	5+5	63	20	110	21.5	●	
TSM D25-06-W12-SL33	6	1+1	25	12	90	6.5	●	SLOT 033... E266
D32-06-W16-SL33	6	2+2	32	16	90	8.0	●	
D40-06-W16-SL33	6	3+3	40	16	105	12.0	●	
D50-06-W20-SL33	6	4+4	50	20	110	15.0	●	
D63-06-W20-SL33	6	5+5	63	20	110	21.5	●	

Cutting Condition
E287-E289

Slotting cutters: modular heads





Designation	CW (mm)		Dimension (mm) DC	DCONMS	LF	OAL	THSZMS	CDX	Coolant hole	Insert
TSM D25-03-M08-SL18	3	1+1	25	13	18	35.5	M08	6	●	SLOT 018... E266
D32-03-M08-SL18	3	2+2	32	13	18	35.5	M08	9	●	
D40-03-M08-SL18	3	3+3	40	13	18	35.5	M08	13	●	
D50-03-M10-SL18	3	4+4	50	18	18	38	M10	15	●	
D63-03-M10-SL18	3	5+5	63	18	18	38	M10	22	●	
TSM D25-04-M08-SL23	4	1+1	25	13	18	35.5	M08	6	●	SLOT 023... E266
D32-04-M08-SL23	4	2+2	32	13	18	35.5	M08	9	●	
D40-04-M08-SL23	4	3+3	40	13	18	35.5	M08	13	●	
D50-04-M10-SL23	4	4+4	50	18	18	38	M10	15	●	
D63-04-M10-SL23	4	5+5	63	18	18	38	M10	22	●	
TSM D25-05-M08-SL28	5	1+1	25	13	18	35.5	M08	6	●	SLOT 028... E266
D32-05-M08-SL28	5	2+2	32	13	18	35.5	M08	9	●	
D40-05-M08-SL28	5	3+3	40	13	18	35.5	M08	13	●	
D50-05-M10-SL28	5	4+4	50	18	18	38	M10	15	●	
D63-05-M10-SL28	5	5+5	63	18	18	38	M10	22	●	
TSM D25-06-M08-SL33	6	1+1	25	13	18	35.5	M08	6	●	SLOT 033... E266
D32-06-M08-SL33	6	2+2	32	13	18	35.5	M08	9	●	
D40-06-M08-SL33	6	3+3	40	13	18	35.5	M08	13	●	
D50-06-M10-SL33	6	4+4	50	18	18	38	M10	15	●	
D63-06-M10-SL33	6	5+5	63	18	18	38	M10	22	●	

- Matched with T-FLEXTEC

Spare parts

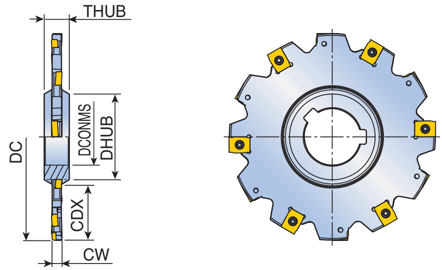
Designation	Screw	Wrench			
TSM...-03...-SL18	TS 25B024I/HG	TD 7P	L-T7P		
TSM...-04...-SL23	TS 25B031I/HG	TD 7P	L-T7P		
TSM...-05...-SL28	TS 25B042I/HG	TD 7P	L-T7P		
TSM...-06...-SL33	TS 25B053I/HG	TD 7P	L-T7P		

Cutting Condition E287-E289

TSM FD-N-Z

TOPSLOT

Slotting cutters: Fixed pocket disk type



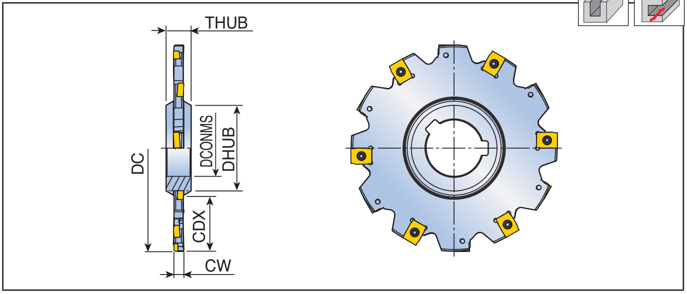
Designation	CW (mm)	Teeth	DC	DCONMS	DHUB	THUB	CDX	Kg	Insert
			Dimension (mm)						
TSM 063FD-03-22N-Z018	3	4+4	63	22	34	8	12.0	0.1	ZNHT 018... E283
080FD-03-22N-Z018	3	5+5	80	22	34	8	20.5	0.1	
100FD-03-27N-Z018	3	6+6	100	27	41	12	26.0	0.2	
125FD-03-40N-Z018	3	7+7	125	40	55	12	31.5	0.3	
160FD-03-40N-Z018	3	9+9	160	40	55	12	49.0	0.4	
TSM 063FD-04-22N-Z023	4	4+4	63	22	34	8	12.0	0.1	ZNHT 023... E283
080FD-04-22N-Z023	4	5+5	80	22	34	8	21.0	0.1	
100FD-04-27N-Z023	4	6+6	100	27	41	12	27.0	0.2	
125FD-04-40N-Z023	4	7+7	125	40	55	12	32.0	0.4	
160FD-04-40N-Z023	4	9+9	160	40	55	12	50.0	0.6	
TSM 063FD-05-22N-Z028	5	4+4	63	22	34	8	13.0	0.1	ZNHT 028... E283
080FD-05-22N-Z028	5	5+5	80	22	34	8	21.0	0.2	
100FD-05-27N-Z028	5	6+6	100	27	41	12	27.0	0.3	
125FD-05-40N-Z028	5	7+7	125	40	55	12	33.0	0.4	
160FD-05-40N-Z028	5	9+9	160	40	55	12	50.0	0.7	
TSM 063FD-06-22N-Z033	6	4+4	63	22	34	8	13.0	0.1	ZNHT 033... E283
080FD-06-22N-Z033	6	5+5	80	22	34	8	21.5	0.2	
100FD-06-27N-Z033	6	6+6	100	27	41	12	27.0	0.3	
125FD-06-40N-Z033	6	7+7	125	40	55	12	33.0	0.5	
160FD-06-40N-Z033	6	9+9	160	40	55	12	50.0	0.8	
200FD-06-50N-Z033	6	10+10	200	50	69	12	63.0	1.2	
250FD-06-50N-Z033	6	12+12	250	50	69	12	88.0	2.0	
TSM 080FD-07-22N-Z038	7	4+4	80	22	34	12	20.0	0.2	ZNHT 038... E283
100FD-07-27N-Z038	7	5+5	100	27	41	12	26.5	0.3	
125FD-07-40N-Z038	7	6+6	125	40	55	12	32.0	0.5	
160FD-07-40N-Z038	7	8+8	160	40	55	12	49.5	0.8	
200FD-07-50N-Z038	7	9+9	200	50	69	12	62.5	1.3	
250FD-07-50N-Z038	7	12+12	250	50	69	12	87.5	1.9	

Cutting Condition
E287-E289

TSM FD-N-Z

TOPSLOT

Slotting cutters: Fixed pocket disk type



Designation		CW (mm)	Teeth	DC	DCONMS	DHUB	THUB	CDX	Kg	Insert
				Dimension (mm)						
TSM	**080FD-08-22N-Z043**	8	4+4	80	22	34	12	20.5	0.2	ZNHT 043... E283
	100FD-08-27N-Z043	8	5+5	100	27	41	12	27.0	0.3	
	125FD-08-40N-Z043	8	6+6	125	40	55	12	32.5	0.5	
	160FD-08-40N-Z043	8	8+8	160	40	55	12	50.0	0.9	
	200FD-08-50N-Z043	8	9+9	200	50	69	12	63.0	1.4	
	250FD-08-50N-Z043	8	12+12	250	50	69	12	88.0	2.3	
TSM	**100FD-09-27N-Z048**	9	5+5	100	27	41	12	27.5	0.4	ZNHT 048... E283
	125FD-09-40N-Z048	9	6+6	125	40	55	12	33.0	0.6	
	160FD-09-40N-Z048	9	8+8	160	40	55	12	50.5	1.0	
	200FD-09-50N-Z048	9	9+9	200	50	69	12	63.5	1.6	
	250FD-09-50N-Z048	9	12+12	250	50	69	12	88.5	2.6	
TSM	**100FD-10-27N-Z053**	10	5+5	100	27	41	12	28.0	0.4	ZNHT 053... E283
	125FD-10-40N-Z053	10	6+6	125	40	55	12	33.5	0.6	
	160FD-10-40N-Z053	10	8+8	160	40	55	12	51.0	1.3	
	200FD-10-50N-Z053	10	9+9	200	50	69	12	64.0	2.0	
	250FD-10-50N-Z053	10	12+12	250	50	69	12	89.0	3.2	

• Arbor: SCA

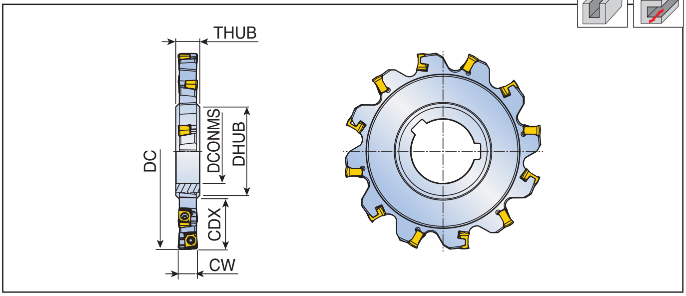
Spare parts

Designation	Screw	Wrench		Designation	Screw	Wrench	
TSM-Z018	TS 25B024I/HG	TD 7P	L-T7P	**TSM-Z038**	TS 40K0535I	T-T15	L-T15
TSM-Z023	TS 25B031I/HG	TD 7P	L-T7P	**TSM-Z043**	TS 40K065I	T-T15	L-T15
TSM-Z028	TS 25B042I/HG	TD 7P	L-T7P	**TSM-Z048**	TS 40K075I	T-T15	L-T15
TSM-Z033	TS 25B053I/HG	TD 7P	L-T7P	**TSM-Z053**	TS 40K085I	T-T15	L-T15

Cutting Condition E287-E289

TSM FD-N-ZN08/11

Slotting cutters: Fixed pocket disk type



Designation	CW (mm)	Teeth	DC	DCONMS	DHUB	THUB	CDX	Kg	Insert
			Dimension (mm)						
TSM 080FD-10-27N-ZN08	10.0	4+4	80	27	41	15	15.5	0.3	ZNHU 080... ZNHU 110... E284
100FD-10-27N-ZN08	10.0	5+5	100	27	41	15	25.5	0.5	
125FD-10-40N-ZN08	10.0	6+6	125	40	55	15	31.0	0.7	
080FD-12-27N-ZN08	12.0	4+4	80	27	41	15	16.5	0.3	
100FD-12-27N-ZN08	12.0	5+5	100	27	41	15	26.5	0.5	
125FD-12-40N-ZN08	12.0	6+6	125	40	55	15	32.0	0.8	
TSM 125FD-14-40N-ZN11	14.0	6+6	125	40	55	15	34.5	0.9	
125FD-17-40N-ZN11	17.0	6+6	125	40	55	18	34.5	1.1	
125FD-20-40N-ZN11	20.0	6+6	125	40	55	20	34.5	1.3	

• Arbor: SCA

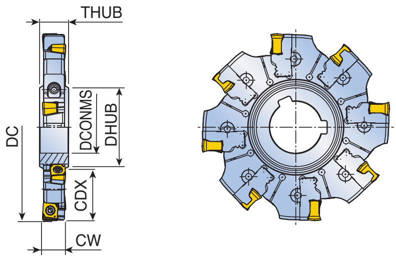
Spare parts

Designation	Screw	Wrench			
TSM...FD...-ZN08	TS 30085I/HG	TD 9	-		
TSM...FD...-ZN11	TS 40120I/HG	-	T-T15		

Cutting Condition
E287-E289

TSM FD-S/W-ZN08

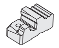
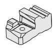
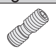
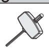
Slotting cutters: Adjustable disk type



Designation	CW (mm)	Teeth	Dimension (mm) DC	DCONMS	DHUB	THUB	CDX	Kg	Insert
TSM 100FD-S-27N-ZN08	10-12	4+4	100	27	41	15	26.5	0.4	ZNHU 080... E284
125FD-S-40N-ZN08	10-12	5+5	125	40	55	15	31.5	0.7	
160FD-S-40N-ZN08	10-12	6+6	160	40	55	15	48.5	1.1	
200FD-S-50N-ZN08	10-12	8+8	200	50	69	15	61.5	1.8	
250FD-S-50N-ZN08	10-12	9+9	250	50	69	15	87.5	2.8	
100FD-W-27N-ZN08	12-14	4+4	100	27	41	15	27.0	0.5	
125FD-W-40N-ZN08	12-14	5+5	125	40	55	15	31.5	0.8	
160FD-W-40N-ZN08	12-14	6+6	160	40	55	15	49.5	1.3	
200FD-W-50N-ZN08	12-14	8+8	200	50	69	15	62.5	2.1	
250FD-W-50N-ZN08	12-14	9+9	250	50	69	15	87.5	3.4	

- Cutters are set at the minimum width of cut range, unless specific width is not ordered
- Arbor: SCA

Spare parts

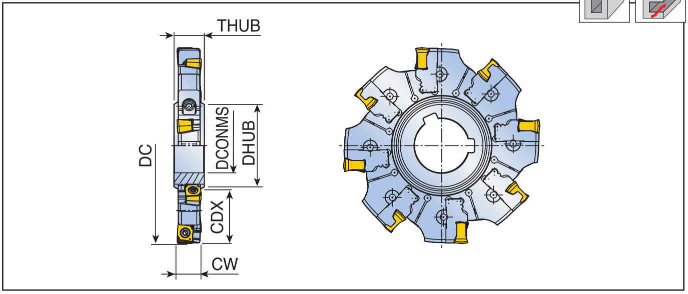
Designation	Right cartridge	Left cartridge	Wedge	Adjust screw	Insert screw
					
TSM...FD-S/W...-ZN08	TCT-SR-ZN08 TCT-WR-ZN08	TCT-SL-ZN08 TCT-WL-ZN08	WFZ 5	SA M8-6.0	TS 30085I/HG
	Wedge screw	Wrench	L-Wrench	Wedge Wrench	
					
	WS 5	TD 9	L-W 3	F-W 2.5	

Cutting Condition E287-E289
Technical Data E299-E301

TSM FD-S/W-ZN11

TOPSLOT

Slotting cutters: Adjustable disk type



Designation	CW (mm)	Teeth	DC	DCONMS	DHUB	THUB	CDX	Kg	Insert
			Dimension (mm)						
TSM 100FD-S-27N-ZN11	14-17	3+3	100	27	41	18	28.0	0.6	ZNHU 110... E284
125FD-S-40N-ZN11	14-17	4+4	125	40	55	18	31.0	1.0	
160FD-S-40N-ZN11	14-17	6+6	160	40	55	18	48.5	1.6	
200FD-S-50N-ZN11	14-17	7+7	200	50	69	18	61.5	2.6	
250FD-S-50N-ZN11	14-17	9+9	250	50	69	18	86.5	4.2	
315FD-S-60N-ZN11	14-17	12+12	315	60	85	18	110.0	6.8	
100FD-W-27N-ZN11	17-20	3+3	100	27	41	22	28.0	0.8	
125FD-W-40N-ZN11	17-20	4+4	125	40	55	22	31.0	1.2	
160FD-W-40N-ZN11	17-20	6+6	160	40	55	22	48.5	2.0	
200FD-W-50N-ZN11	17-20	7+7	200	50	69	22	61.5	3.2	
250FD-W-50N-ZN11	17-20	9+9	250	50	69	22	86.5	5.2	
315FD-W-60N-ZN11	17-20	12+12	315	60	85	22	110.0	8.5	

- Cutters are set at the minimum width of cut range, unless specific width is not ordered
- Arbor: SCA

Spare parts

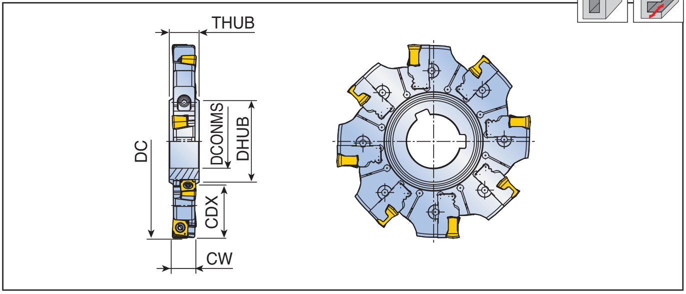
Designation	Right cartridge	Left cartridge	Wedge	Adjust screw	Insert screw
TSM...FD-S/W...-ZN11	TCT-SR-ZN11 TCT-WR-ZN11	TCT-SL-ZN11 TCT-WL-ZN11	WFZ 6	SA M8-9.0	TS 40120I/HG
	Wedge screw	Wrench	L-Wrench	Wedge Wrench	
	WS 6	T-T15	L-W 4	T-W 3	

Cutting Condition E287-E289
Technical Data E299-E301

TSM FD-S/W-ZN14

TOPSLOT

Slotting cutters: Adjustable disk type



Designation	CW (mm)		Dimension (mm)					Kg	Insert
			DC	DCONMS	DHUB	THUB	CDX		
TSM 125FD-S-40N-ZN14	20-23	3+3	125	40	55	24.5	32.0	1.4	ZNHU 140... E284
160FD-S-40N-ZN14	20-23	5+5	160	40	55	24.5	49.0	2.4	
200FD-S-50N-ZN14	20-23	6+6	200	50	69	24.5	62.5	3.9	
250FD-S-50N-ZN14	20-23	8+8	250	50	69	24.5	87.0	6.3	
315FD-S-60N-ZN14	20-23	10+10	315	60	85	24.5	111.5	10.2	
125FD-W-40N-ZN14	23-26	3+3	125	40	55	27.5	32.0	1.6	
160FD-W-40N-ZN14	23-26	5+5	160	40	55	27.5	49.0	2.7	
200FD-W-50N-ZN14	23-26	6+6	200	50	69	27.5	62.5	4.3	
250FD-W-50N-ZN14	23-26	8+8	250	50	69	27.5	87.0	7.1	
315FD-W-60N-ZN14	23-26	10+10	315	60	85	27.5	111.5	11.6	

- Cutters are set at the minimum width of cut range, unless specific width is not ordered
- Arbor: SCA

Spare parts

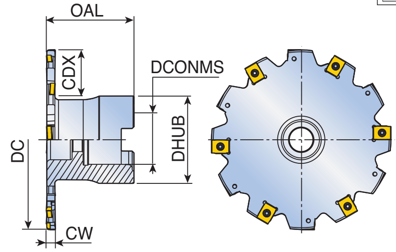
Designation	Right cartridge	Left cartridge	Wedge	Adjust screw	Insert screw
TSM...FD-S/W...-ZN14	TCT-SR-ZN14	TCT-SL-ZN14	WFZ 6	SA M8-9.0	TS 40120I/HG
	Wedge screw	Wrench	L-Wrench	Wedge Wrench	
	WS 6	T-T15	L-W 4	T-W 3	

Cutting Condition E287-E289

Technical Data E299-E301

TSM FF-Z

Slotting cutters: Fixed pocket flange type



Designation	CW (mm)	Teeth	DC	DCONMS	DHUB	OAL	CDX	Arbor style	Kg	Mounting bolt	Insert
			Dimension (mm)								
TSM 080FF-03-22R-Z018	3	5+5	80	22	40	50	20.0	A	0.4	SH M10x35	ZNHT 018...
100FF-03-27R-Z018	3	6+6	100	27	48	50	26.0	A	0.6	SH M12x35	
080FF-04-22R-Z023	4	5+5	80	22	40	50	20.0	A	0.4	SH M10x35	ZNHT 023...
100FF-04-27R-Z023	4	6+6	100	27	48	50	26.0	A	0.6	SH M12x35	
080FF-05-22R-Z028	5	5+5	80	22	40	50	20.0	A	0.5	SH M10x35	ZNHT 028...
100FF-05-27R-Z028	5	6+6	100	27	48	50	26.0	A	0.7	SH M12x35	
080FF-06-22R-Z033	6	5+5	80	22	40	50	20.0	A	0.5	SH M10x35	ZNHT 033...
100FF-06-27R-Z033	6	6+6	100	27	48	50	26.0	A	0.7	SH M12x35	E283
125FF-06-40R-Z033	6	7+7	125	40	70	50	25.0	B	1.1	-	
160FF-06-40R-Z033	6	9+9	160	40	70	50	43.0	B	1.4	-	
080FF-07-22R-Z038	7	4+4	80	22	40	50	20.0	A	0.5	SH M10x40	ZNHT 038...
100FF-07-27R-Z038	7	5+5	100	27	48	50	25.5	A	0.7	SH M12x35	E283
125FF-07-40R-Z038	7	6+6	125	40	70	50	24.5	B	1.1	-	
160FF-07-40R-Z038	7	8+8	160	40	70	50	42.0	B	1.4	-	
080FF-08-22R-Z043	8	4+4	80	22	40	50	20.0	A	0.5	SH M10x35	ZNHT 043...
100FF-08-27R-Z043	8	5+5	100	27	48	50	25.5	A	0.8	SH M12x35	E283
125FF-08-40R-Z043	8	6+6	125	40	70	50	24.5	B	1.2	-	
160FF-08-40R-Z043	8	8+8	160	40	70	50	42.0	B	1.5	-	
100FF-09-27R-Z048	9	5+5	100	27	48	50	26.0	A	0.7	SH M12x35	ZNHT 048...
125FF-09-40R-Z048	9	6+6	125	40	70	50	24.5	B	1.2	-	E283
160FF-09-40R-Z048	9	8+8	160	40	70	50	42.0	B	1.6	-	
100FF-10-27R-Z053	10	5+5	100	27	48	50	26.0	A	0.8	SH M12x35	ZNHT 053..
125FF-10-40R-Z053	10	6+6	125	40	70	50	24.5	B	1.4	-	E283
160FF-10-40R-Z053	10	8+8	160	40	70	50	42.0	B	1.7	-	

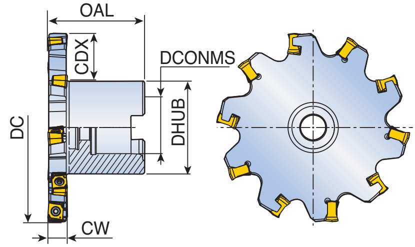
Spare parts

Designation	Screw	Wrench		Designation	Screw	Wrench	
TSM-Z018	TS 25B024I/HG	TD 7P	L-T7P	**TSM-Z038**	TS 40K0535I	T-T15	L-T15
TSM-Z023	TS 25B031I/HG	TD 7P	L-T7P	**TSM-Z043**	TS 40K065I	T-T15	L-T15
TSM-Z028	TS 25B042I/HG	TD 7P	L-T7P	**TSM-Z048**	TS 40K075I	T-T15	L-T15
TSM-Z033	TS 25B053I/HG	TD 7P	L-T7P	**TSM-Z053**	TS 40K085I	T-T15	L-T15

Cutting Condition E287-E289
Arbor Style E290-E291

TSM FF-ZN08/11

Slotting cutters: Fixed pocket flange type



Designation	CW (mm)		Dimension (mm)					Arbor style	Kg	Mounting bolt	Insert
			DC	DCONMS	DHUB	OAL	CDX				
TSM 063FF-10-22R-ZN08	10.0	3+3	63	22	40	50	15	A	0.4	SH M10x35	ZNHU 080... ZNHU 110... E284
080FF-10-22R-ZN08	10.0	4+4	80	22	40	50	24	A	0.5	SH M10x35	
100FF-10-27R-ZN08	10.0	5+5	100	27	48	50	26	A	0.8	SH M12x35	
125FF-10-32R-ZN08	10.0	6+6	125	32	58	50	34	B	1.1	-	
063FF-12-22R-ZN08	12.0	3+3	63	22	40	50	15	A	0.4	SH M10x35	
080FF-12-22R-ZN08	12.0	4+4	80	22	40	50	24	A	0.5	SH M10x35	
100FF-12-27R-ZN08	12.0	5+5	100	27	48	50	26	A	0.9	SH M12x35	
125FF-12-32R-ZN08	12.0	6+6	125	32	58	50	34	B	1.2	-	
TSM 063FF-14-22R-ZN11	14.0	3+3	63	22	40	50	15	A	0.4	SH M10x35	
080FF-14-22R-ZN11	14.0	4+4	80	22	40	50	24	A	0.5	SH M10x35	
100FF-14-27R-ZN11	14.0	5+5	100	27	48	50	26	A	1.0	SH M12x35	
125FF-14-32R-ZN11	14.0	6+6	125	32	58	50	34	B	1.3	-	
160FF-14-40R-ZN11	14.0	6+6	160	40	70	50	43	B	2.5	-	
080FF-17-22R-ZN11	17.0	4+4	80	22	40	50	24	A	0.6	SH M10x35	
100FF-17-27R-ZN11	17.0	5+5	100	27	48	50	26	A	1.0	SH M12x35	
125FF-17-32R-ZN11	17.0	6+6	125	32	58	50	34	B	1.5	-	
080FF-20-22R-ZN11	20.0	4+4	80	22	40	50	24	A	0.7	SH M10x35	
100FF-20-27R-ZN11	20.0	5+5	100	27	48	50	26	A	1.1	SH M12x35	
125FF-20-32R-ZN11	20.0	6+6	125	32	58	50	34	B	1.6	-	

Spare parts

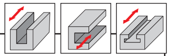
Designation	Screw	Wrench			
TSM...FF...-ZN08	TS 30085I/HG	TD 9	-		
TSM...FF...-ZN11	TS 40120I/HG	-	T-T15		

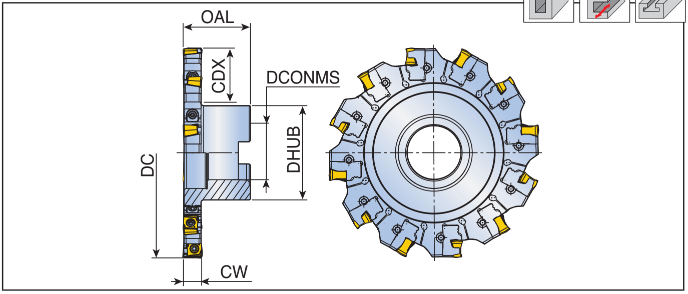
Cutting Condition E287-E289
Arbor Style E290-E291

TSM FF-S/W-ZN08

TOPSLOT

Slotting cutters: Adjustable flange type

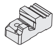
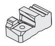
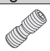
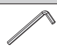
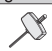




Designation	CW (mm)		Dimension (mm)					Arbor style	Kg	Mounting bolt	Insert
			DC	DCONMS	DHUB	OAL	CDX				
TSM 100FF-S-27R-ZN08	10-12	4+4	100	27	48	50	25	A	0.8	SH M12x35	ZNHU 080... E284
125FF-S-32R-ZN08	10-12	5+5	125	32	58	50	31.5	B	1.1	-	
160FF-S-40R-ZN08	10-12	6+6	160	40	70	50	43	B	1.8	-	
200FF-S-40R-ZN08	10-12	8+8	200	40	90	50	53	C	2.9	-	
100FF-W-27R-ZN08	12-14	4+4	100	27	48	50	25	A	0.9	SH M12x35	
125FF-W-32R-ZN08	12-14	5+5	125	32	58	50	31.5	B	1.2	-	
160FF-W-40R-ZN08	12-14	6+6	160	40	70	50	43	B	2.0	-	
200FF-W-40R-ZN08	12-14	8+8	200	40	90	50	53	C	3.2	-	

• Cutters are set at the minimum width of cut range, unless specific width is not ordered

Spare parts

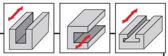
Designation	Right cartridge	Left cartridge	Wedge	Adjust screw	Insert screw
					
TSM...FF-S/W...-ZN08	TCT-SR-ZN08 TCT-WR-ZN08	TCT-SL-ZN08 TCT-WL-ZN08	WFZ 5	SA M8-6.0	TS 30085I/HG
	Wedge screw	Wrench	L-Wrench	Wedge Wrench	
					
	WS 5	TD 9	L-W 3	F-W 2.5	

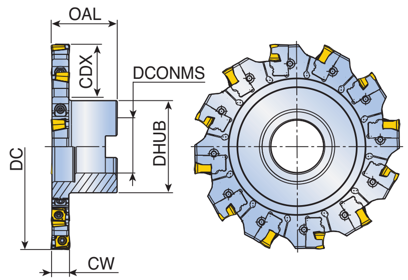
Cutting Condition E287-E289
Arbor Style E290-E291
Technical Data E299-E301

ADVANCe MACHINING TaeguTec Industry 4.0

TSM FF-S/W-ZN11

Slotting cutters: Adjustable flange type

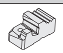
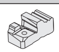
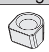
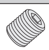
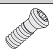
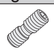
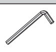




Designation	CW (mm)	Teeth	DC	DCONMS	DHUB	OAL	CDX	Arbor style	Kg	Mounting bolt	Insert
			Dimension (mm)								
TSM 100FF-S-27R-ZN11	14-17	3+3	100	27	48	50	25.0	A	0.9	SH M12x35	ZNHU 110... E284
125FF-S-32R-ZN11	14-17	4+4	125	32	58	50	31.5	B	1.3	-	
160FF-S-40R-ZN11	14-17	6+6	160	40	70	50	43.0	B	2.2	-	
200FF-S-40R-ZN11	14-17	7+7	200	40	90	50	53.0	C	3.9	-	
250FF-S-60R-ZN11	14-17	9+9	250	60	130	50	55.0	C	6.2	-	
315FF-S-60R-ZN11	14-17	12+12	315	60	130	50	90.0	C	8.9	-	
100FF-W-27R-ZN11	17-20	3+3	100	27	48	50	25.0	A	1.0	SH M12x35	
125FF-W-32R-ZN11	17-20	4+4	125	32	58	50	31.5	B	1.5	-	
160FF-W-40R-ZN11	17-20	6+6	160	40	70	50	43.0	B	2.2	-	
200FF-W-40R-ZN11	17-20	7+7	200	40	90	50	53.0	C	4.1	-	
250FF-W-60R-ZN11	17-20	9+9	250	60	130	50	55.0	C	6.9	-	
315FF-W-60R-ZN11	17-20	12+12	315	60	130	50	90.0	C	10.2	-	

• Cutters are set at the minimum width of cut range, unless specific width is not ordered

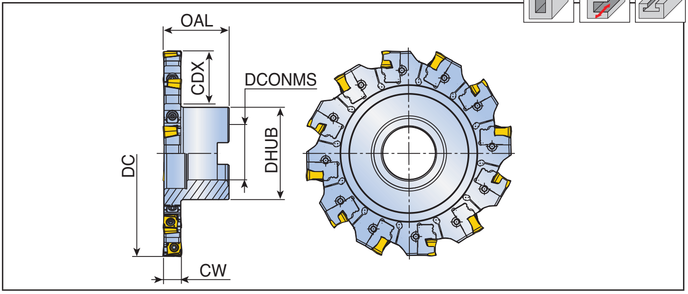
Spare parts

Designation	Right cartridge	Left cartridge	Wedge	Adjust screw	Insert screw
					
TSM...FD-S/W...-ZN11	TCT-SR-ZN11 TCT-WR-ZN11	TCT-SL-ZN11 TCT-WL-ZN11	WFZ 6	SA M8-9.0	TS 40120I/HG
	Wedge screw	Wrench	L-Wrench	Wedge Wrench	
					
	WS 6	T-T15	L-W 4	T-W 3	

Cutting Condition E287-E289
Arbor Style E290-E291
Technical Data E299-E301

TSM FF-S/W-ZN14

Slotting cutters: Adjustable flange type



Designation	CW (mm)	Teeth	Dimension (mm) DC	DCONMS	DHUB	OAL	CDX	Arbor style	Kg	Insert
TSM 125FF-S-32R-ZN14	20-23	3+3	125	32	58	50	32.5	B	2.6	ZNHU 140... E284
160FF-S-40R-ZN14	20-23	5+5	160	40	70	50	43.0	B	2.8	
200FF-S-40R-ZN14	20-23	6+6	200	40	90	50	53.0	C	4.6	
250FF-S-60R-ZN14	20-23	8+8	250	60	130	50	58.0	C	7.2	
315FF-S-60R-ZN14	20-23	10+10	315	60	130	50	90.0	C	11.3	
125FF-W-32R-ZN14	23-26	3+3	125	32	58	50	32.5	B	1.8	
160FF-W-40R-ZN14	23-26	5+5	160	40	70	50	43.0	B	3.0	
200FF-W-40R-ZN14	23-26	6+6	200	40	90	50	53.0	C	5.0	
250FF-W-60R-ZN14	23-26	8+8	250	60	130	50	58.0	C	7.5	
315FF-W-60R-ZN14	23-26	10+10	315	60	130	50	90.0	C	12.2	

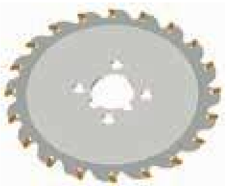
• Cutters are set at the minimum width of cut range, unless specific width is not ordered

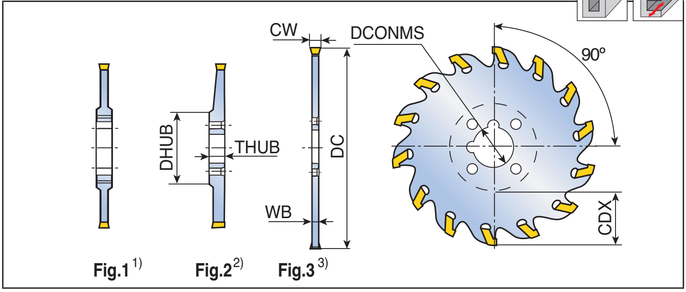
Spare parts

Designation	Right cartridge	Left cartridge	Wedge	Adjust screw	Insert screw
TSM...FD-S/W...-ZN14	TCT-SR-ZN14	TCT-SL-ZN14	WFZ 6	SA M8-9.0	TS 40120I/HG
	Wedge screw	**Wrench**	**L-Wrench**	**Wedge Wrench**	
	WS 6	T-T15	L-W 4	T-W 3	

Cutting Condition E287-E289
Arbor Style E290-E291
Technical Data E299-E301

Slotting cutters





Designation	CW (mm)		Dimension (mm)						Fig.	Insert seat size	Insert
			DC	DCONMS	DHUB	WB	THUB	CDX			
TSC 75 1.6 22A	1.6	8	75	22.0	39	1.24	2.4	18	1	1	TIMC
100 1.6 22A	1.6	10	100	22.0	39	1.24	2.4	30	1	1	TIMJ
125 1.6 27A	1.6	12	125	27.0	64	1.24	2.4	30	1	1	TIPV
75 2 22A	2.0-2.3	8	75	22.0	39	1.6	2.4	18	1	2	E275-E276
100 2 22A	2.0-2.3	10	100	22.0	39	1.6	2.4	30	1	2	
125 2 27A	2.0-2.3	12	125	27.0	64	1.6	2.4	30	1	2	
100 2.4 22K	2.3-2.5	10	100	22.0	46	1.9	2.4	26	2	2	
125 2.4 32K	2.3-2.5	12	125	32.0	55	1.9	2.4	34	2	2	
160 2.4 32K	2.3-2.5	16	160	32.0	55	1.9	2.4	52	2	2	
100 3 22K	2.8-3.58	6	100	22.0	-	2.4	-	26	3	4	
125 3 32K	2.8-3.53	8	125	32.0	-	2.4	-	34	3	4	
160 3 40K	2.8-3.53	10	160	40.0	-	2.4	-	39	3	4	
100 4 22K	3.54-4.52	6	100	22.0	-	3.2	-	27	3	4	
125 4 32K	3.54-4.52	8	125	32.0	-	3.2	-	34	3	4	
160 4 40K	3.54-4.52	10	160	40.0	-	3.2	-	39	3	4	

• 1)Key drive, 2)Flange drive, 3)Flange+Drive shank

Spare parts

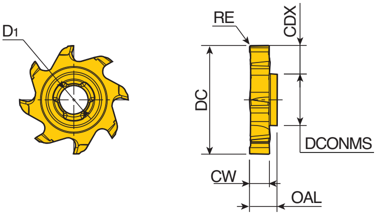
Designation	Drive flange set	Drive shank			
TSC-2.4-22K	TR22-46	-			
TSC-2.4-32K	TR32-55	-			
TSC-22K	TR22-46	TW32-40			
TSC-32K	TR32-55	T32-55			
TSC-40K	TR40-80	T40-80			

Cutting Condition E287-E289

Technical Data E302-E303

• Extractor(ESG 0.5 or ESG 1) supplied with each cutter
• Flange set should be ordered separately

Interchangeable solid carbide slot milling heads



Designation	Feed (mm/tooth)	Dimension (mm)								Grade
		DC	CW	CDX	NOF	RE	D1	DCONMS	OAL	TT5525
TR13-S-24.7-3.0R0.4	0.02-0.15	24.7	3	5.5	6	0.4	7.5	13	8	●
24.7-4.0R0.4	0.02-0.15	24.7	4	5.5	6	0.4	7.5	13	8	●
24.7-5.0R0.4	0.02-0.15	24.7	5	5.5	6	0.4	7.5	13	8	●
24.7-6.0R0.4	0.02-0.15	24.7	6	5.5	6	0.4	7.5	13	8	●
24.7-7.0R0.4	0.02-0.15	24.7	7	5.5	6	0.4	7.5	13	8	●
24.7-8.0R0.4	0.02-0.15	24.7	8	5.5	6	0.4	7.5	13	8	●
TR15-S-31.7-3.0R0.4	0.022-0.18	31.7	3	8	8	0.4	8.4	15	8	●
31.7-4.0R0.4	0.022-0.18	31.7	4	8	8	0.4	8.4	15	8	●
31.7-5.0R0.4	0.022-0.18	31.7	5	8	8	0.4	8.4	15	8	●
31.7-6.0R0.4	0.022-0.18	31.7	6	8	8	0.4	8.4	15	8	●
31.7-7.0R0.4	0.022-0.18	31.7	7	8	8	0.4	8.4	15	8	●
31.7-8.0R0.4	0.022-0.18	31.7	8	8	8	0.4	8.4	15	8	●
TR17-S-39.7-4.0R0.4	0.025-0.20	39.7	4	11	10	0.4	9.8	17	10	●
39.7-5.0R0.4	0.025-0.20	39.7	5	11	10	0.4	9.8	17	10	●
39.7-6.0R0.4	0.025-0.20	39.7	6	11	10	0.4	9.8	17	10	●
39.7-7.0R0.4	0.025-0.20	39.7	7	11	10	0.4	9.8	17	10	●
39.7-8.0R0.4	0.025-0.20	39.7	8	11	10	0.4	9.8	17	10	●
39.7-9.0R0.4	0.025-0.20	39.7	9	11	10	0.4	9.8	17	10	●
39.7-10.0R0.4	0.025-0.20	39.7	10	11	10	0.4	9.8	17	10	●

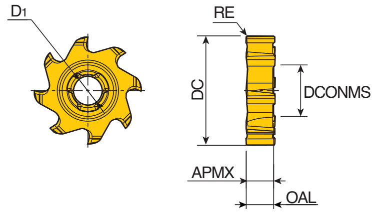
• NOF: Number of flutes

●: Standard items

Cutting Condition E287-E289

E219

Interchangeable solid carbide facing heads



Designation	Feed (mm/tooth)	Dimension (mm)							Grade
		DC	APMX	NOF	RE	D1	DCONMS	OAL	TT5525
TR13-F-25-8.0-R0.4	0.04-0.15	24.25	8	6	0.4	7.5	13	8	●
15-F-32-8.0-R0.4	0.04-0.15	31.25	8	8	0.4	8.4	15	8	●
17-F-40-10.0-R0.4	0.04-0.15	39.25	10	10	0.4	9.8	17	10	●

Cutting Condition E287-E289
E220

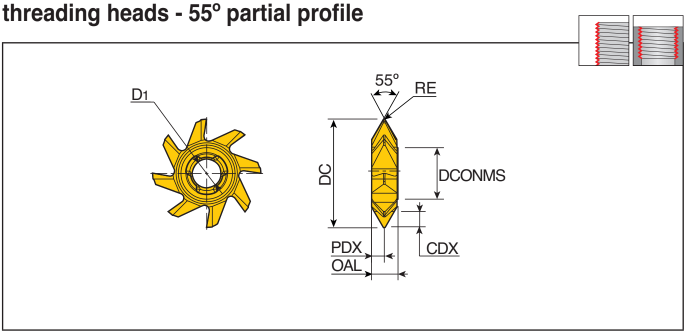
• NOF: Number of flutes

●: Standard items

TR-T-W55

MAXISLOT

Interchangeable solid carbide threading heads - 55° partial profile



Designation	TPI	Dimension (mm)									Grade
		DC	DMIN	PDX	RE	D1	CDX	OAL	ZEFP	DCONMS	TT5525
TR13-T-24.7-W55-3T	5-3	24.7	36	2.2	0.5	7.5	3.5	7.7	6	13	●
15-T-31.7-W55-4T	6-4	31.7	46	3.7	0.5	8.4	4.7	7.7	8	15	●
17-T-39.7-W55-3T	4-3	39.7	57	4.5	0.8	9.8	6.2	9.5	10	17	●

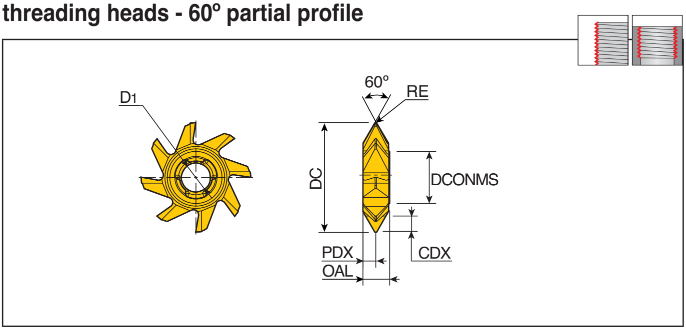
- TPI: Threads per inch
- ZEFP: Peripheral effective cutting edge count

●: Standard items

TR-T-M60

MAXISLOT

Interchangeable solid carbide threading heads - 60° partial profile



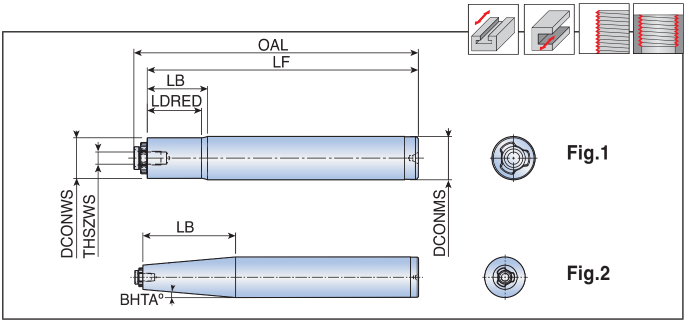
Designation	TP (mm)	TPI	Dimension (mm)									Grade
			DC	DMIN	PDX	RE	D1	CDX	OAL	ZEFP	DCONMS	TT5525
TR13-T-24.7-M60-5P	3-5	5-3	24.7	36	2.2	0.2	7.5	3.5	7.7	6	13	●
15-T-31.7-M60-6P	4-6	6-4	31.7	46	3.7	0.3	8.4	4.7	7.7	8	15	●
17-T-39.7-M60-8P	6-8	4-3	39.7	57	4.5	0.4	9.8	6.2	9.5	10	17	●

Cutting Condition E287-E289
E219

- TP: Threads pitch, TPI: Threads per inch
- ZEFP: Peripheral effective cutting edge count

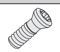
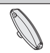
●: Standard items

Slotting & threading holders



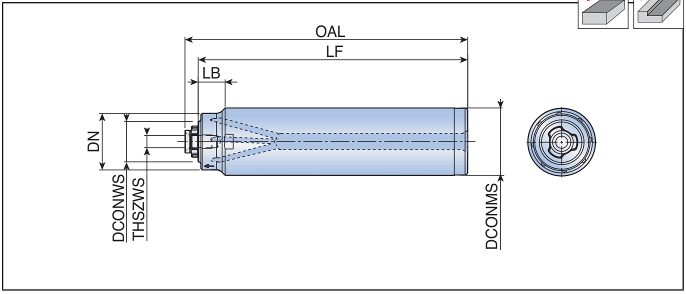
Designation	Dimension (mm)								Coolant hole	Fig.	Insert
	DCONMS	DCONWS	LB	LF	OAL	THSZWS	LDRED	BHTA°			
TR13-16-L100	16	13	16.6	100	104.35	M4x0.5	13.0	-	x	1	TR-S..
15-16-L100	16	15	18.2	100	104.90	M5x0.5	16.0	-	x	1	TR-T..
15-16-L130	16	15	18.2	130	134.90	M5x0.5	16.0	-	x	1	E216,
17-20-L140	20	17	23.8	140	146.00	M6x0.5	20.2	-	x	1	E218
15-25-TC170	25	15	57.2	170	174.90	M5x0.5	-	5	x	2	

Spare parts

Designation	Screw	Wrench	Wrench handle		
					
TR13	TS 40T098/HG-P	BLD IP15/S7	SW6-T		
TR15	TS 50T110/HG-P	BLD IP20/S7	SW6-T		
TR17	TS 60T130/HG-P	BLD IP20/S7	SW6-T		

TR-F-C

Facing holders



Designation	Dimension (mm)							Coolant hole	Insert
	DCONMS	DCONWS	LB	LF	OAL	THSZWS	DN		
TR13-20-L100-F-C	20	13	10	100	104.35	M4x0.5	16	●	TR-F..... E217
13-25-L100-F-C	25	13	12.5	100	104.35	M4x0.5	16	●	
15-25-L100-F-C	25	15	10	100	104.90	M5x0.5	21	●	
15-32-L110-F-C	32	15	13.5	110	114.90	M5x0.5	21	●	
17-32-L140-F-C	32	17	10	140	146.00	M6x0.5	28	●	
17-42-L140-F-C	42	17	15	140	146.00	M6x0.5	28	●	

Spare parts

Designation	Screw	Wrench	Wrench handle		
TR13	TS 40T098/HG-P	BLD IP15/S7	SW6-T		
TR15	TS 50T110/HG-P	BLD IP20/S7	SW6-T		
TR17	TS 60T130/HG-P	BLD IP20/S7	SW6-T		

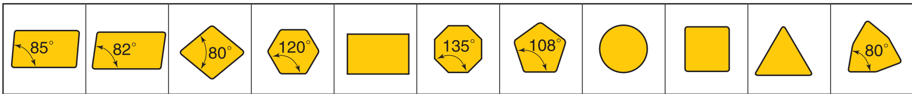
Milling Inserts

Insert Designation System

S P K N

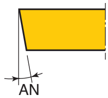
1 2 3 4

1 Shape



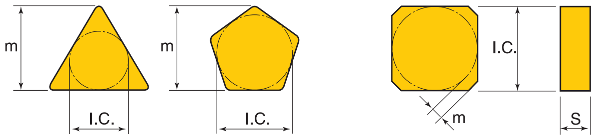
											Special
A	B	C	H	L	O	P	R	S	T	W	X

2 Clearance angle



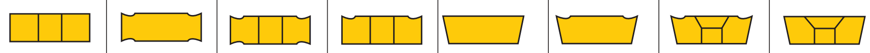
B	C	D	E	F	G	N	P
5°	7°	15°	20°	25°	30°	0°	11°

3 Tolerance



Class	Tolerance (mm)			I.C. Dimension (mm)					
	m	S	I.C.	6.35	9.52	12.70	15.87	19.05	25.40
A	±0.005	±0.025	±0.025	•	•	•	•	•	•
E	±0.025	±0.025	±0.025	•	•	•	•	•	•
F	±0.005	±0.025	±0.013	•	•	•	•	•	•
G	±0.025	±0.130	±0.025	•	•	•	•	•	•
H	±0.013	±0.025	±0.013	•	•	•	•	•	•
K	±0.013	±0.025	±0.05	•	•				
			±0.08			•			
			±0.10				•	•	
			±0.13						•
M	±0.08	±0.130	±0.05	•	•				
	±0.13		±0.08			•			
	±0.15		±0.10				•	•	
	±0.18		±0.13						•

4 Chipformer and clamp type



								Special
A	F	G	M	N	R	T	W	X

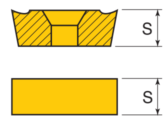
Insert Designation System

12	03	08 / ED	T	R	-	
5	6	7	8	9		10

5 Cutting edge length(mm)

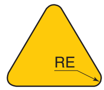
I.C(mm)	C	R,S	T	H	O
5.56			09		
6.35	06	06	11		
7.94	08		13		
9.52	09	09	16		
12.70	12	12	22	05	05
15.87	16	15	27	09	
25.40	25	25			

6 Thickness(mm)



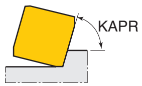
01	1.59
02	2.38
03	3.18
T3	3.97
04	4.76
05	5.56
06	6.35
07	7.94
09	9.52

7 Corner radius(mm)



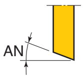
02R	0.2
04R	0.4
05R	0.5
08R	0.8
10R	1.0
12R	1.2
15R	1.5
16R	1.6
24R	2.4
32R	3.2
40R	4.0

7 Parallel land



A=45° D=60°
E=75° F=85°
P=90° Z=Special

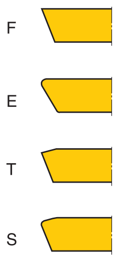
Entering angle



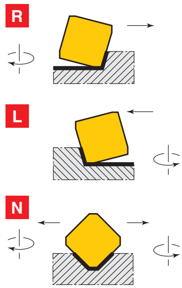
B= 5° F=25°
C= 7° G=30°
D=15° N= 0°
E=20° P=11°
Z=Special

Clearance angle of wiper

8 Edge condition



9 Hand of tool



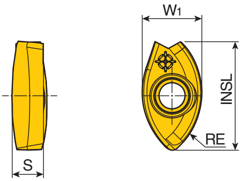
10 Manufacturer's option

AL	Aluminum
WC	Wiper crown
MR	Medium rough
M	Medium
L	Light
ML	Medium light
E□□	Economical

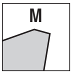
TaeguTec Member IMC Group

2FB

Inserts

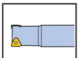


Size	Dimension (mm)					
	INSL	W1	S	APMX	RE	
160-M	12.4	6.8	3.7	8.0	8.0	
200-M	14.9	8.2	4.8	10.0	10.0	
250-M	18.9	10.2	5.9	12.5	12.5	
300-M	22.1	11.8	6.9	15.0	15.0	
320-M	23.9	12.8	7.5	16.0	16.0	



Insert	Designation	Recommended machining conditions ap (mm)	Recommended machining conditions Feed (mm/tooth)	Coated TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510		Uncoated K10		
	**2FB 160-M**	2.0-6.5	0.30-0.07	●		●	●	●				●				
	200-M	3.0-8.0	0.35-0.08	●		●	●	●				●				
	250-M	3.5-10.0	0.35-0.08	●		●	●					●				
	300-M	4.0-12.5	0.40-0.08	●		●	●					●				
	320-M	4.5-13.0	0.40-0.08	●		●	●					●				
	**2FB 160-ML**	2.0-6.5	0.28-0.05	●		●	●									
	200-ML	3.0-8.0	0.32-0.07	●		●	●									
	250-ML	3.5-10.0	0.32-0.07	●		●	●									

●: Standard items

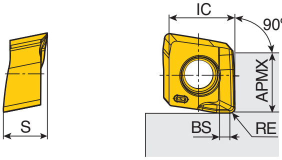


E169-E170

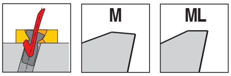
2PKT

CHASEPMILL

Inserts



Size	Dimension (mm)				
	IC	S	APMX	BS	RE
05	5.17	3.4	4.7	0.4-0.8	0.4-1.6
07	6.74	4.4	6.0	0.85	0.8



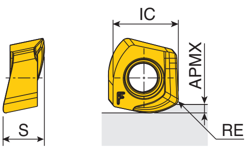
Insert	Designation	Recommended machining conditions: ap (mm)	Recommended machining conditions: Feed (mm/tooth)	Coated: TT9080	Coated: TT8080	Coated: TT8020	Coated: TT8525B	Coated: TT7080	Coated: TT7515	Coated: TT6080	Coated: TT2510	Coated	Coated	Uncoated: K10	Uncoated	Uncoated
	**2PKT 050304R-M**	0.5-4.2	0.18-0.06	●	●				●	●	●					
	050308R-M	0.5-4.2	0.18-0.06	●	●				●	●	●					
	050316R-M	0.5-4.2	0.18-0.06	●	●				●	●	●					
	070408R-M	0.6-5.4	0.25-0.07	●	●											
	**2PKT 050304R-ML**	0.5-4.2	0.12-0.02	●	●					●						
	050308R-ML	0.5-4.2	0.18-0.06	●	●				●	●						
	050316R-ML	0.5-4.2	0.18-0.06	●	●				●	●						

● : Standard items

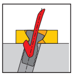
2PKT-HF

CHASEPMILL

High feed inserts

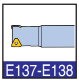


Size	Dimension (mm)			
	IC	S	APMX	RE
05	5.12	3.2	0.5	0.5
07	6.78	4.06	0.8	0.85

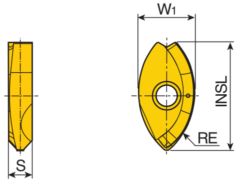


Insert	Designation	Recommended machining conditions: ap (mm)	Recommended machining conditions: Feed (mm/tooth)	Coated: TT9080	Coated: TT8080	Coated: TT8020	Coated: TT8525B	Coated: TT7080	Coated: TT7515	Coated: TT6080	Coated: TT2510	Coated	Coated	Uncoated: K10	Uncoated	Uncoated
	**2PKT 0503R-HF**	0.2-0.5	1.0-0.5	●	●						●					
	0704R-HF	0.3-0.8	1.2-0.6	●												

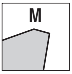
● : Standard items



Inserts

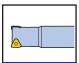


Size	Dimension (mm)					
	INSL	W1	S	APMX	RE	
320C-M	23	12.0	5.2	16	16	
500C-M	36	18.6	7.0	25	25	
320P-M	21	9.9	5.2	16	16	
500P-M	32.9	15.3	7.0	25	25	



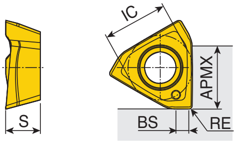
Insert	Designation		Recommended machining conditions: ap (mm)	Recommended machining conditions: Feed (mm/tooth)	Coated: TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510		Uncoated: K10		
	**3FB**	**320C-M**	4.5-13.0	0.15-0.08	●		●						●				
		500C-M	7.5-20.0	0.30-0.15	●		●		●				●				
	**3FB**	**320P-M**	4.5-13.0	0.15-0.08	●		●						●				
		500P-M	7.5-20.0	0.30-0.08	●		●						●				

●: Standard items

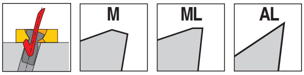

E171

3PK(H)T

Inserts

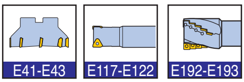


Size	Dimension (mm)					
	IC	S	APMX	BS	RE	
04	3.9	2.1	3.5	0.5-0.7	0.2-0.4	
06	5.3	2.8	4.7	0.6-1.2	0.2-0.8	
10	6.9	4.0	7.0	0.5-1.3	0.4-1.6	
15	10.7	5.0	11.0	0.5-2.0	0.4-2.4	
19	13.5	6.0	15.0	0.5-2.0	0.4-3.2	



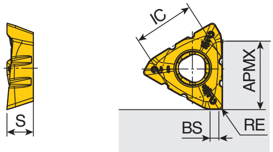
Insert	Designation		Recommended machining conditions		Cermet		Coated								Uncoated		
			ap (mm)	Feed (mm/tooth)	CT7000		TT9080	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10		
	**3PKT**	**040202R-M**	0.5-3.0	0.08-0.04			●	●									
		040204R-M	0.5-3.0	0.08-0.04			●	●									
		060302R-M	1.0-4.0	0.10-0.04			●	●	●					●			
		060304R-M	1.0-4.0	0.10-0.04			●	●	●				●	●			
		060308R-M	1.0-4.0	0.10-0.04			●	●	●				●	●			
		100404R-M	2.0-6.0	0.12-0.05			●	●	●		●	●	●	●			
		100408R-M	2.0-6.0	0.12-0.05			●	●	●		●	●	●	●			
		100416R-M	2.0-6.0	0.12-0.05			●							●			
		150508R-M	3.0-9.0	0.17-0.07			●	●	●	●	●	●	●	●			
		150516R-M	3.0-9.0	0.17-0.07			●				●			●			
		150524R-M	3.0-12.0	0.17-0.07			●							●			
		190608R-M	4.5-12.0	0.22-0.09			●	●	●	●	●	●	●	●			
		190616R-M	4.5-12.0	0.22-0.09			●	●	●		●			●			
		190624R-M	4.5-12.0	0.22-0.09			●							●			
		190632R-M	4.5-12.0	0.22-0.09			●							●			
	3PHT	**100404R-M**	2.0-6.0	0.12-0.05	●		●							●			
		100408R-M	2.0-6.0	0.12-0.05	●		●										
		150504R-M	3.0-9.0	0.17-0.07			●										
		150508R-M	3.0-9.0	0.17-0.07	●		●										
		150516R-M	3.0-9.0	0.17-0.07	●		●							●			
		190608R-M	4.5-12.0	0.22-0.09	●		●										
	**3PKT**	**100404R-ML**	2.0-6.0	0.10-0.04			●	●	●				●				
		100408R-ML	2.0-6.0	0.10-0.04			●	●	●								
		150508R-ML	3.0-9.0	0.12-0.05			●	●	●				●				
		190608R-ML	4.5-12.0	0.14-0.06			●	●	●				●				
	3PHT	**100408R-ML**	2.0-6.0	0.10-0.04			●	●									
		150508R-ML	3.0-9.0	0.12-0.05			●	●									
	**3PHT**	**060304R-AL**	1.0-4.0	0.22-0.07											●		
		100404R-AL	2.0-6.0	0.40-0.10											●		
		100408R-AL	2.0-6.0	0.40-0.10											●		
		150504R-AL	3.0-9.0	0.50-0.10											●		
		150508R-AL	3.0-9.0	0.50-0.10											●		
		190604R-AL	4.5-12.0	0.50-0.15											●		
		190608R-AL	4.5-12.0	0.50-0.15											●		

●: Standard items

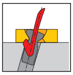

E41-E43
E117-E122
E192-E193

3PKT-SM

Splitter Inserts

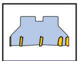
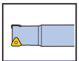
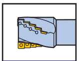


Size	Dimension (mm)					
	IC	S	APMX	BS	RE	
15	10.7	5.0	11.0	1.6	0.8	
19	13.5	6.0	15.0	2.0	0.8	

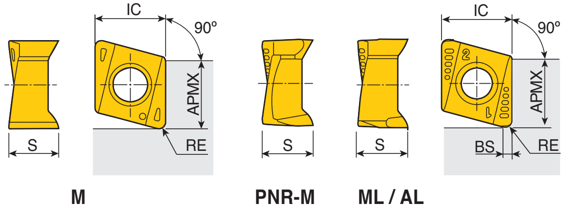


Insert	Designation	Recommended machining conditions		Cermet		Coated								Uncoated		
		ap (mm)	Feed (mm/tooth)	CT7000		TT9080	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10		
	**3PKT 150508-SM2**	3.0-9.0	0.17-0.07			●	●		●			●				
	190608-SM2	4.5-12.0	0.22-0.09			●	●		●			●				
	**3PKT 150508-SM3**	3.0-9.0	0.17-0.07			●	●		●			●				
	190608-SM3	4.5-12.0	0.22-0.09			●	●		●			●				

● : Standard items


E41-E43

E121-E122

E192-E193

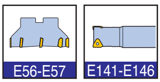
Inserts



Size	Dimension (mm)				
	IC	S	APMX	BS	RE
04	4.0	3.1	3.5	-	0.2-0.8
06	6.6	4.2-5.0	5.8-6.2	0.6-1.0	0.4-2.0
09	8.6	5.7-6.3	8.0	0.8-1.2	0.4-1.6
11	10.7	8.1	10.5	1.0	0.8
14	14.0	9.2-9.4	13.5-13.8	1.25	0.8

Insert	Designation		Recommended machining conditions		Coated								Uncoated
			ap (mm)	Feed (mm/tooth)	TT9080	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**4NKT**	**040202R-M**	0.5-3.0	0.08-0.04	●	●							
		040204R-M	1.0-3.0	0.12-0.06	●	●					●		
		040208R-M	1.0-3.0	0.12-0.06	●	●							
		060304R-M	0.5-5.0	0.15-0.07	●	●					●		
		060308R-M	1.0-5.0	0.15-0.07	●	●				●	●	●	
		060312R-M	1.0-5.0	0.15-0.07	●	●							
		060316R-M	2.0-4.5	0.15-0.07	●	●				●	●	●	
		060320R-M	2.0-4.5	0.15-0.07	●	●							
		090408R-M	2.5-7.0	0.15-0.07	●	●				●	●	●	
		090416R-M	2.5-7.0	0.15-0.07	●	●					●		
		110608R-M	3.5-10.0	0.18-0.09	●	●					●		
		140708R-M	4.0-12.0	0.18-0.09	●	●		●	●		●		
	**4NKT**	**110608 PNR-M**	3.5-10.0	0.18-0.09	●	●		●					
		140708 PNR-M	4.0-12.0	0.18-0.09	●	●		●					
	**4NKT**	**060304R-ML**	0.5-5.0	0.10-0.05	●	●					●		
		060308R-ML	1.0-5.0	0.10-0.05	●	●				●	●		
		060312R-ML	1.0-5.0	0.10-0.05	●	●					●		
		060316R-ML	2.0-4.5	0.10-0.05	●	●				●	●		
		060320R-ML	2.0-4.5	0.12-0.05	●	●					●		
	**4NHT**	**060304R-ML**	0.5-5.0	0.13-0.05	●								
		060308R-ML	1.0-5.0	0.13-0.05	●	●							
		090404R-ML	2.5-7.0	0.10-0.04	●								
		090408R-ML	2.5-7.0	0.10-0.04	●	●							
	**4NHT**	**060304R-AL**	1.0-5.0	0.40-0.10									●
		060308R-AL	1.0-5.0	0.40-0.10									●
		090404R-AL	2.5-7.0	0.50-0.10									●
		090408R-AL	2.5-7.0	0.50-0.10									●

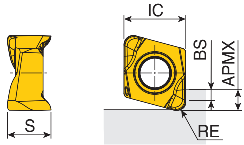
●: Standard items


E56-E57
E141-E146

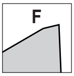
4NHT 06-F

CHASE4MILL

Inserts



Size	Dimension (mm)					
	IC	S	APMX	BS	RE	
05R	6.6	4.9	2.3	1.8	0.5	
10R	6.6	4.7	2.1	1.1	1.0	
15R	6.6	4.5	3.3	1.8	1.5	
20R	6.6	4.3	3.0	1.1	2.0	



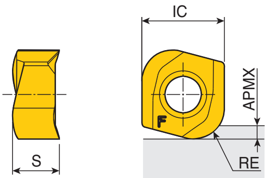
Insert	Designation		Recommended machining conditions		Coated										Uncoated		
			ap (mm)	Feed (mm/tooth)	TT9080	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510			K10		
	**4NHT**	**060305R-F**	0.2-2.0	1.15-0.07	●							●					
		060310R-F	0.2-1.8	1.15-0.07	●							●					
		060315R-F	0.2-3.0	1.15-0.07	●							●					
		060320R-F	0.2-2.7	1.15-0.07	●							●					

●: Standard items

4NKT-HF

CHASE4MILL

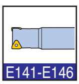
High feed inserts



Size	Dimension (mm)					
	IC	S	APMX	RE		
04-HF	4.0	2.65	0.5	1.2		
06-HF	6.6	3.85	1.0	2.0		
09-HF	8.6	4.76	1.5	3.2		
11-HF	10.7	6.56	2.0	4.0		
14-HF	14.0	7.34	3.0	5.0		

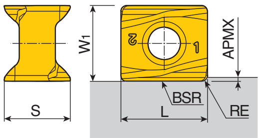
Insert	Designation		Recommended machining conditions		Coated										Uncoated		
			ap (mm)	Feed (mm/tooth)	TT9080	TT8080	TT8525B	TT7515	TT7080	TT6080	TT2510				K10		
	**4NKT**	**040212R-HF**	0.2-0.4	0.60-0.10	●						●						
		060320R-HF	0.2-0.6	0.80-0.20	●	●					●						
		090432R-HF	0.3-0.8	1.00-0.20	●												
		110640R-HF	0.3-1.2	1.20-0.30	●												
		140750R-HF	0.3-1.5	1.50-0.30	●												

●: Standard items

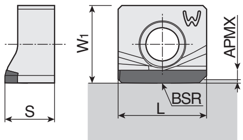


CHASE4FINISH

Inserts



ML/AL



PCD / CBN

Size	Dimension (mm)					
	L	W1	S	APMX	RE	BSR
12-ML/AL	12	10.5	9.08	0.5	0.8	1000
12-PCD	12	10.5	6.74	0.5	-	1000
12-CBN	12	10.63	6.71	0.5	-	1000

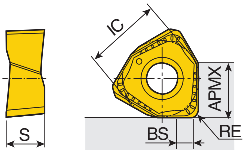
Insert	Designation	Recommended machining conditions		Coated						Uncoated			PCD		CBN	
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT6080		K10			TD810		TB7015	
	**4WHU 1207-ML**	0.25-0.5	0.25-0.10	●				●								
	**4WHU 1207-AL**	0.25-0.5	0.25-0.10							●						
	**4WHU 1207-PCD**	0.25-0.5	0.25-0.10										●			
	**4WHU 1207-CBN**	0.25-0.5	0.25-0.10												●	

●: Standard items

TaeguTec
Member IMC Group

MILL2RUSH

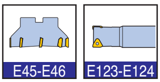
Inserts



Size	Dimension (mm)					
	IC	S	APMX	BS	RE	
06	9.26	4.76	6.2	1.2-2.4	0.4-1.6	
09	13.05	6.70	9.2	1.2-2.2	0.4-1.6	

Insert	Designation	Recommended machining conditions ap (mm)	Recommended machining conditions Feed (mm/tooth)	Coated TT9080	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510			Uncoated K10		
	**6NGU 060404R-M**	1.5-5.0	0.15-0.08	●	●			●		●	●					
	060405R-M	1.5-5.0	0.15-0.08	●							●					
	060408R-M	1.5-5.0	0.15-0.08	●	●	●	●	●		●	●					
	060410R-M	1.5-5.0	0.15-0.08	●						●	●					
	060416R-M	1.5-5.0	0.15-0.08	●	●			●		●	●					
	090504R-M	2.5-7.5	0.20-0.10	●	●			●		●	●					
	090508R-M	2.5-7.5	0.20-0.10	●	●	●	●	●	●	●	●					
	090516R-M	2.5-7.5	0.20-0.10	●	●		●	●	●	●	●					
	**6NGU 060404R-ML**	1.5-5.0	0.10-0.05	●	●					●						
	060405R-ML	1.5-5.0	0.10-0.05	●												
	060408R-ML	1.5-5.0	0.10-0.05	●	●	●		●		●						
	060416R-ML	1.5-5.0	0.10-0.05	●	●					●						
	090504R-ML	2.5-7.5	0.10-0.05	●	●					●						
	090508R-ML	2.5-7.5	0.10-0.05	●	●	●		●		●						
	090516R-ML	2.5-7.5	0.10-0.05	●	●					●						
	**6NGU 060404R-AL**	1.5-5.0	0.40-0.10											●		
	060408R-AL	1.5-5.0	0.40-0.10											●		
	090504R-AL	2.5-7.5	0.40-0.10											●		
	090508R-AL	2.5-7.5	0.40-0.10											●		

●: Standard items

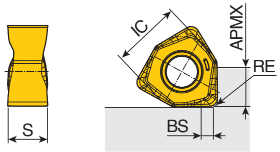


E45-E46
E123-E124

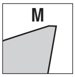
6NKU 04

MILL2RUSH

Inserts



Size	Dimension (mm)				
	IC	S	APMX	BS	RE
04	7	3.9	4.1	0.85-1.25	0.4-0.8



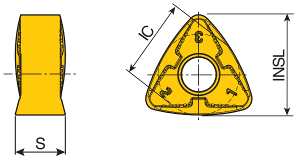
Insert	Designation		ap (mm)	Feed (mm/tooth)	TT9080	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510			K10		
			Recommended machining conditions		Coated										Uncoated		
	**6NKU**	**040304R-M**	1.0-3.0	0.10-0.05	●	●					●	●					
		040308R-M	1.0-3.0	0.10-0.05	●	●					●	●					

●: Standard items

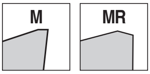
6RBE

CHASE2BALL

Inserts



Size	Dimension (mm)		
	IC	S	INSL
6RBE 50	13	8	16



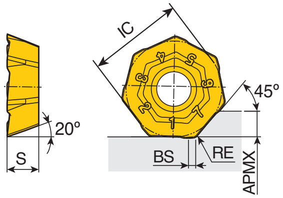
Insert	Designation		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510		K10		
			Recommended machining conditions		Coated										Uncoated		
	**6RBE**	**50-M**	1.0-5.0	0.80-0.10	●		●	●	●			●	●				
		50-MR	1.0-5.0	0.80-0.10	●								●				

●: Standard items

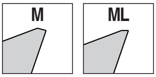
7EMT

CHASEHEPTA

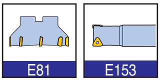
Inserts



Size	Dimension (mm)					
	IC	S	APMX	BS	RE	
06	12.8	4.2	3.2	1.0	0.8	



Insert	Designation	Recommended machining conditions: ap (mm)	Recommended machining conditions: Feed (mm/tooth)	Coated: TT9080	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510			Uncoated: K10		
	**7EMT 0604 AETR-M**	2.5	0.15-0.06	●	●			●		●						
	**7EMT 0604 AETR-ML**	2.5	0.15-0.06	●	●					●						

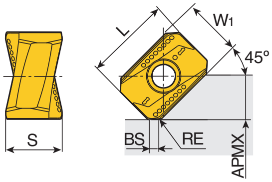


●: Standard items

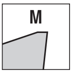
ANHX 1607 ANR-M

CHASE2MILL

Inserts



Size	Dimension (mm)					
	L	W_1	S	APMX	BS	RE
16	16	11	10.4	8.4	1.6	1.0

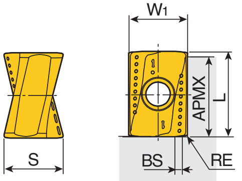


Insert	Designation	Recommended machining conditions: ap (mm)	Recommended machining conditions: Feed (mm/tooth)	Coated: TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080			Uncoated: K10		
	**ANHX 1607 ANR-M**	2.5-7.0	0.30-0.15	●		●		●	●		●					

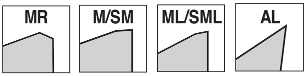
• Use only for 45° cutter

●: Standard items

Inserts

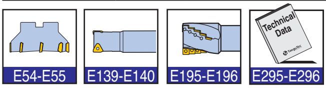


Size	Dimension (mm)					
	L	W1	S	APMX	BS	RE
11	12	9.2	8.5	11	0.7-1.5	0.4-1.6
16	16	11.0	10.4-10.9	15	0.6--1.7	0.4-2.4

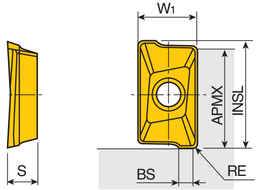


Insert	Designation		Recommended machining conditions: ap (mm)	Recommended machining conditions: Feed (mm/tooth)	Coated: TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	Uncoated: K10
	**ANMX**	**110608R-M**	3.0-9.0	0.20-0.10	●		●							
		160708R-M	4.5-12.0	0.20-0.10	●		●							
	ANHX	**110604R-M**	3.0-9.0	0.15-0.08	●		●					●	●	
		110608R-M	3.0-9.0	0.15-0.08	●		●	●	●	●	●	●	●	
		110616R-M	3.0-9.0	0.15-0.08	●		●						●	
		160704R-M	4.5-12.0	0.20-0.10	●	●	●			●	●	●	●	
		160708R-M	4.5-12.0	0.20-0.10	●	●	●	●	●	●	●	●	●	
		160716R-M	4.5-12.0	0.20-0.10	●		●			●		●	●	
		160724R-M	4.5-12.0	0.20-0.10	●		●		●	●		●	●	
	**ANHX**	**160708R-ML**	4.5-12.0	0.12-0.06			●	●	●					
	**ANHX**	**160708R-MR**	4.5-12.0	0.25-0.13			●		●				●	
	**ANHX**	**110604R-AL**	3.0-9.0	0.40-0.10										●
		110608R-AL	3.0-9.0	0.40-0.10										●
		160704R-AL	4.5-12.0	0.40-0.10										●
		160708R-AL	4.5-12.0	0.40-0.10										●
	**ANHX**	**110608R-SM**	3.0-9.0	0.15-0.08	●		●		●			●		
		160708R-SM	4.5-12.0	0.20-0.10	●		●		●		●	●		
	**ANHX**	**110608R-SML**	3.0-9.5	0.15-0.06	●		●							
		160708R-SML	4.5-13.5	0.20-0.06	●		●					●		

● : Standard items



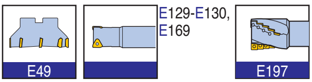
Inserts



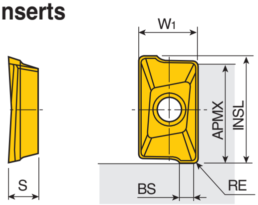
Size	Dimension (mm)					
	INSL	W1	S	APMX	BS	RE
09	9.7-10.6	6.20	3.8	8.8	0.5-1.79	0.4-3.2
09T3 PER	10.5	6.20	3.8	8.8	0.5-1.79	0.4

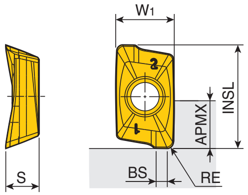
Insert	Designation		Recommended machining conditions ap (mm)	Recommended machining conditions Feed (mm/tooth)	Cermet CT7000	Cermet	Coated TT9080	Coated TT9030	Coated TT8080	Coated TT8020	Coated TT8525B	Coated TT7080	Coated TT7515	Coated TT6080	Coated TT2510	Uncoated K10	Uncoated
	**APKT**	**09T3 PER-EM**	2.5-7.5	0.10-0.05	●		●	●	●	●	●	●	●	●	●	●	
		09T305R-EM	2.5-7.5	0.10-0.05						●							
		09T308R-EM	2.5-7.5	0.10-0.05			●	●	●	●		●	●	●	●		
		09T316R-EM	2.5-7.5	0.10-0.05			●	●	●	●		●		●	●		
		09T320R-EM	2.5-7.5	0.10-0.05			●		●			●			●		
		09T332R-EM	2.5-7.5	0.10-0.05			●		●						●		
		09T3 PER-M	2.5-7.5	0.10-0.05						●		●		●	●		
	**APCT**	**09T3 PER-ML**	3.0-7.5	0.10-0.05	●		●		●	●		●		●			
	**APCT**	**09T3 PER-AL**	2.5-7.5	0.35-0.05												●	

●: Standard items



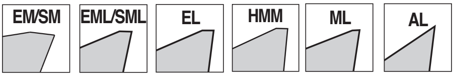
Inserts





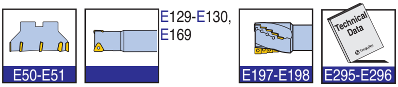
HMM

Size	Dimension (mm)					
	INSL	W1	S	APMX	BS	RE
12	13.0-14.6	8.3	4.5-4.9	11.8-12.5	0.9-2.1	0.4-4.0
1204 PER	13.4-14.6	8.3	4.5-4.9	11.8-12.5	0.9-2.1	0.8
1204-HMM	14.6	8.3	4.7	6.5	1.6	0.8



Insert	Designation	Recommended machining conditions ap (mm)	Recommended machining conditions Feed (mm/tooth)	Coated TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510			Uncoated K10		
	**APKT 1204 PER-EM**	3.5-10.0	0.14-0.07	●	●	●	●	●	●	●	●	●					
	120404R-EM	3.5-10.0	0.14-0.07		●		●		●		●	●					
	120416R-EM	3.5-10.0	0.14-0.07	●	●	●	●	●	●		●	●					
	120424R-EM	3.5-10.0	0.14-0.07		●	●	●					●					
	120430R-EM	3.5-10.0	0.14-0.07	●	●	●	●	●	●		●	●					
	120432R-EM	3.5-10.0	0.14-0.07		●		●				●	●					
	120440R-EM	3.5-10.0	0.14-0.07	●		●						●					
	**APKT 1204 PER-SM**	3.5-10.0	0.14-0.07	●		●		●			●						
	**APKT 1204 PER-SML**	3.5-10.5	0.14-0.06	●		●											
	**APKT 1204 PER-EML**	3.5-10.0	0.08-0.04	●		●											
	**APKT 1204 PER-EL**	3.5-10.0	0.05-0.03	●	●	●	●										
	120430R-EL	3.5-10.0	0.06-0.03	●		●											
	**APKT 1204 PER-HMM**	3.5-6.5	0.12-0.05	●													
	**APCT 120430R-ML**	3.5-10.0	0.08-0.04	●		●											
	120432R-ML	3.5-10.0	0.08-0.04	●		●											
	120440R-ML	3.5-9.5	0.08-0.04	●		●											
	**APCT 1204 PER-AL**	3.5-10.0	0.50-0.10												●		
	120404R-AL	3.5-10.0	0.50-0.10												●		
	120416R-AL	3.5-10.0	0.50-0.10												●		

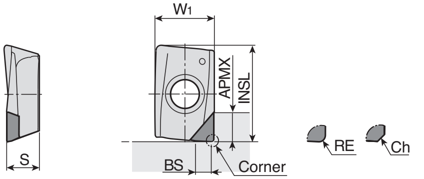
●: Standard items



APCT 12-PCD35

CHASEMILL

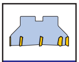
PCD Inserts

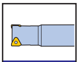


Size	Dimension (mm)						
	INSL	W_1	S	APMX	BS	RE	Ch
12	13.3	8.2	4.5	3.5	2	0.4	-
12...C	13.3	8.2	4.5	3.5	2.1	-	0.25

Insert	Designation		Recommended machining conditions		PCD			Coated							Uncoated		
			ap (mm)	Feed (mm/tooth)	TD830			TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080		K10		
	**APCT**	**120404R-PCD35**	0.2-3.0	0.30-0.05	●												
		1204C025-PCD35	0.2-3.0	0.30-0.05	●												

●: Standard items

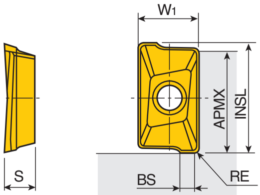

E50-E51


E131-E132

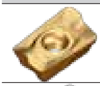
APCT 17

CHASEMILL

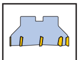
Inserts

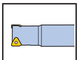


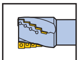
Size	Dimension (mm)					
	INSL	W_1	S	APMX	BS	RE
17-ML	18.5	10.8	5.55	16.1	2.07	0.8
17-AL	18.3-18.5	10.8	5.62	16.1	1.55-2.56	0.8-3.0

Insert	Designation		Recommended machining conditions		Coated										Uncoated	
			ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510		K10	
	**APCT**	**1705 PER-ML**	4.5-13.0	0.12-0.06	●		●									
	**APCT**	**1705 PER-AL**	4.5-13.0	0.50-0.10											●	
		170530R-AL	4.5-13.0	0.50-0.10											●	

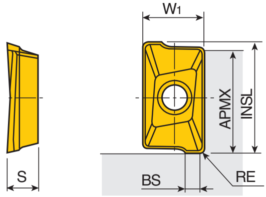
●: Standard items


E50-E51

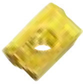

E133-E134


E197-E198

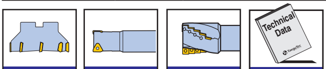
Inserts



Size	Dimension (mm)					
	INSL	W1	S	APMX	BS	RE
17	16.8–18.5	10.7	5.56	16.1	0.9-3.17	0.4-6.4
17(AL)	17.6	10.7	5.27	16.1	3.15	0.8
1705 PER	18.5-18.9	10.7	5.56-6.5	16-16.4	0.9-3.17	0.8

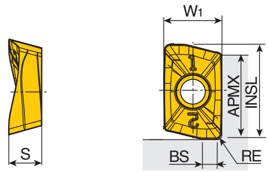
Insert	Designation		Recommended machining conditions		Coated											Uncoated	
			ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510			K10	
	**APKT**	**1705 PER-EM**	4.5-13.0	0.18-0.09	●	●	●	●	●	●		●	●			●	
		170504R-EM	4.5-13.0	0.18-0.09	●		●	●		●		●	●				
		170510R-EM	4.5-13.0	0.17-0.09	●	●	●		●	●		●	●				
		170516R-EM	4.5-13.0	0.17-0.09	●	●	●	●		●		●	●				
		170524R-EM	4.5-13.0	0.17-0.09	●	●	●	●	●	●		●	●				
		170530R-EM	4.5-13.0	0.17-0.09	●	●	●	●		●			●				
		170532R-EM	4.5-13.0	0.17-0.09	●	●	●	●	●	●		●	●				
		170535R-EM	4.5-13.0	0.17-0.09	●	●	●	●				●	●				
		170540R-EM	4.5-13.0	0.20-0.10	●	●		●					●				
		170548R-EM	4.5-13.0	0.17-0.09	●	●	●	●	●	●	●	●	●				
		170550R-EM	4.5-13.0	0.20-0.10		●		●					●				
		170564R-EM	4.5-13.0	0.18-0.09	●	●	●	●		●		●	●				
	**APKT**	**1706 PER-EM**	4.5-13.0	0.18-0.09	●	●	●	●	●	●	●	●	●			●	
	**APKT**	**1705 PER-M**	4.5-13.0	0.18-0.09				●		●		●	●			●	
		170516R-M	4.5-13.0	0.30-0.15				●									
		170532R-M	4.5-13.0	0.20-0.10				●		●		●	●				
		170548R-M	4.5-13.0	0.20-0.10				●									
	**APKT**	**1705 PER-SM**	4.5-13.0	0.17-0.09	●		●		●			●					
	**APKT**	**1705 PER-SML**	4.5-14.5	0.17-0.06	●		●										
	**APKT**	**1705 PER-EML**	4.5-13.0	0.14-0.07	●		●			●							
	**APKT**	**1705 PER-EL**	4.5-13.0	0.10-0.05	●	●	●	●	●								

● : Standard items

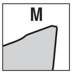


E50-E51,E70 | E133-E134 | E197-E198 | E295-E296

Inserts

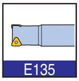


Size	Dimension (mm)					
	INSL	W_1	S	APMX	BS	RE
19	21	13	7.35	17.9	2.0	1.2



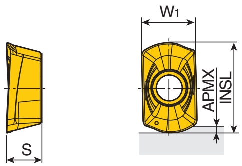
Insert	Designation	Recommended machining conditions		Coated										Uncoated		
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510		K10		
	**APKT 190712R-M**	5.0-15.0	0.20-0.07	●		●		●	●		●	●				
	**APKT 190712R-MR**	5.0-15.0	0.25-0.10	●		●			●		●	●				
	**APKT 190712R-ML**	5.0-15.0	0.20-0.08	●		●					●					

●: Standard items



APKT/AXMT-HF

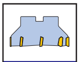
High feed inserts

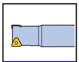


Size	Dimension (mm)					
	INSL	W_1	S	APMX		
06	6.7	4.04	2.6	0.5		
09	10.7	5.94	3.9	1.0		
12	14.2	8.0	5.0	1.2		

Insert	Designation		Recommended machining conditions		Coated										Uncoated		
			ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510		K10		
	**AXMT**	**0602R-HF**	0.2-0.5	0.70-0.30	●		●						●				
	APKT	**09T3R-HF**	0.1-1.0	0.80-0.30	●		●						●				
		1204R-HF	0.2-1.0	0.80-0.10	●		●						●				

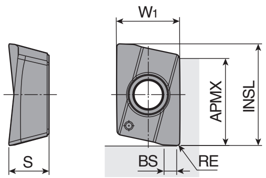
●: Standard items


E49-E50

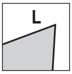

E127-E132

AXCT 06-L

Inserts

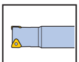


Size	Dimension (mm)					
	INSL	W_1	S	APMX	BS	RE
06	6.5	4.2	2.6	5.5	0.6-1.0	0-0.4



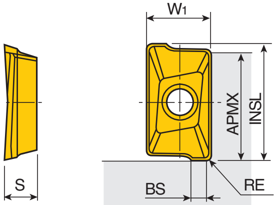
Insert	Designation		Recommended machining conditions		Coated										Uncoated		
			ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT5525		K10		
	**AXCT**	**060200R-L**	0.1-5.0	0.08-0.03									●				
		060202R-L	0.2-5.0	0.10-0.03									●				
		060204R-L	0.3-5.0	0.10-0.03									●				

●: Standard items

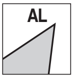

E126

AXMT 06/AXCT 06

Inserts

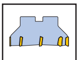


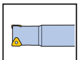
Size	Dimension (mm)					
	INSL	W1	S	APMX	BS	RE
06	6.7	4.20	2.6	5.5	0.83-1.0	0.2-2.0
06 PER	6.7	4.15	2.6	5.5	0.76	0.2

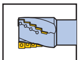


Insert	Designation	Recommended machining conditions: ap (mm)	Recommended machining conditions: Feed (mm/tooth)	Coated: TT9080	Coated: TT9030	Coated: TT8080	Coated: TT8020	Coated: TT8525B	Coated: TT7080	Coated: TT7515	Coated: TT6080	Coated: TT5525	Coated: TT2510	Uncoated: K10	Uncoated	Uncoated
	**AXMT 0602 PER-EM**	1.5-5.0	0.08-0.04	●	●	●	●						●			
	060204R-EM	1.5-5.0	0.13-0.07	●	●	●	●			●	●		●			
	060208R-EM	1.5-5.0	0.13-0.07	●	●	●	●			●	●		●			
	060216R-EM	1.5-5.0	0.13-0.07	●	●	●	●						●			
	060220R-EM	1.5-5.0	0.13-0.07	●		●										
	**AXCT 060202R-AL**	1.5-5.0	0.20-0.10											●		
	060204R-AL	1.5-5.0	0.20-0.10											●		
	060208R-AL	1.5-5.0	0.20-0.10											●		

●: Standard items

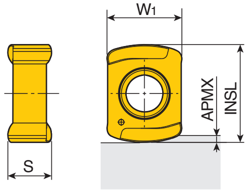

E49


E127-E128


E197

CHASE4FEED

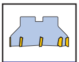
High feed inserts



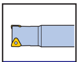
Size	Dimension (mm)			
	INSL	W_1	S	APMX
04	6.0	4.2	2.5	0.5
06	9.0	6.39	3.73	1.0
09	11.9	9.18	4.80	1.5
11	14.6	11.2	6.5	2.0

Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**BLMP 0402R-M**	0.1-0.5	1.50-0.20	●	●						●	
	0603R-M	0.1-1.0	2.50-0.30	●	●	●	●			●	●	
	0904R-M	0.1-1.5	3.50-0.30	●	●	●	●		●	●	●	
	1105R-M	0.3-2.0	4.00-0.30	●	●		●				●	
	**BLMP 0603R-MM**	0.1-1.0	2.00-0.20	●	●	●					●	
	0904R-MM	0.1-1.5	3.00-0.20	●	●	●					●	
	**BLMP 0402R-ML**	0.1-0.5	0.80-0.10	●	●							
	0603R-ML	0.1-1.0	0.80-0.10	●	●	●						
	0904R-ML	0.1-1.5	0.80-0.30	●	●	●						
	1105R-ML	0.3-2.0	0.40-0.30	●	●							

● : Standard items



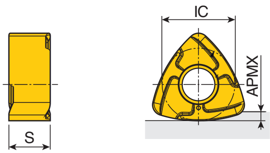
E107-E108



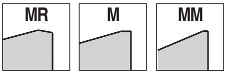
E177-E184

BLMP 13

High feed inserts

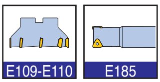


Size	Dimension (mm)		
	IC	S	APMX
13	12.3	7	2



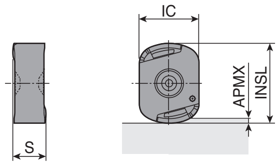
Insert	Designation	Recommended machining conditions ap (mm)	Recommended machining conditions Feed (mm/tooth)	Coated TT9080	Coated TT8080	Coated TT8020	Coated TT8525B	Coated TT7080	Coated TT7515	Coated TT6080	Coated TT2510	Coated	Uncoated K10	Uncoated	Uncoated
	**BLMP 1306R-M**	0.5-2.0	4.50-0.40	●	●	●	●		●	●	●				
	**BLMP 1306R-MM**	0.5-2.0	4.50-0.40	●	●	●	●				●				
	**BLMP 1306R-MR**	0.5-2.0	4.50-0.40	●	●	●	●		●	●	●				

●: Standard items



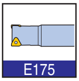
BNGX 09

High feed inserts



Size	Dimension (mm)				
	INSL	IC	S	APMX	
09	12	9	5	1.5	

Insert	Designation	Recommended machining conditions		Ceramic		Coated								Uncoated		
		ap (mm)	Feed (mm/tooth)	TC3030	TC3020	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	K10		
	BNGX 0904 CH-E04	0.5-1.0	0.35-0.15	●												

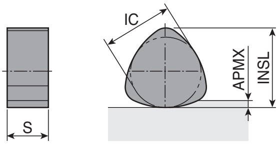


• E04: Honing 0.04-0.05mm

●: Standard items

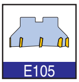
BNGX 12

High feed inserts



Size	Dimension (mm)				
	INSL	IC	S	APMX	
12	13.6	12	7	2.5	

Insert	Designation	Recommended machining conditions		Ceramic		Coated								Uncoated		
		ap (mm)	Feed (mm/tooth)	TC3030	TC3020	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	K10		
	BNGX 1207-E04	1.0-2.0	0.35-0.15	●												



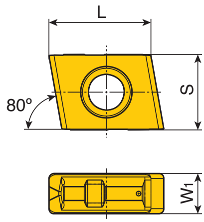
• E04: Honing 0.04-0.05mm

●: Standard items

CNHX

TRIOBALL

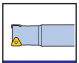
Inserts



Size	Dimension (mm)		
	L	S	W_1
131108T	12.7	11	5.4
160608T	16.0	12	6.4

Insert	Designation	ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080			K10		
		Recommended machining conditions		Coated										Uncoated		
	CNHX 131108T	1.2-5.5	0.55-0.17					●								
	160608T	1.2-5.5	0.60-0.20					●								

●: Standard items

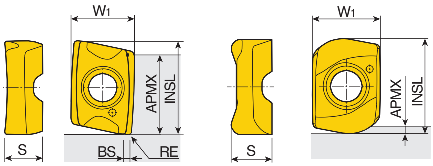


E171

CVK(H)T

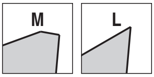
MILLSFEED

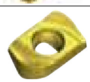
Inserts



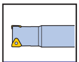
M/L HF (High Feed)

Size	Dimension (mm)					
	INSL	W_1	S	APMX	BS	RE
05-M/L	6.3	4.2	2.6	5.0	0.35	0.2
05-HF	5.5	4.2	2.5	0.5	-	-



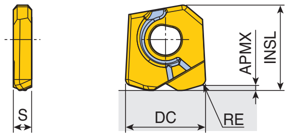
Insert	Designation	ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT5525	TT2510	K10		
		Recommended machining conditions		Coated										Uncoated		
	CVKT 0502PNR-M	0.5-4.0	0.08-0.04	●		●										
	CVHT 0502PNR-L	0.5-4.0	0.07-0.03	●		●						●				
	CVKT 0502R-HF	0.2-0.4	0.70-0.30	●		●							●			

●: Standard items



E113-E114

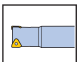
High feed inserts



Size	Dimension (mm)					
	INSL	DC	S	APMX	RE	
06	5.9	6	1.6	0.3	0.5	
08	8.4	8	1.8	0.5	0.6	

Insert	Designation	Recommended machining conditions		Coated										Uncoated		
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT5515		K10		
	**HFN 060-M**	0.1-0.2	0.50-0.30									●				
	080-M	0.2-0.3	0.50-0.30									●				

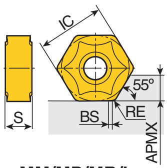
●: Standard items


E174

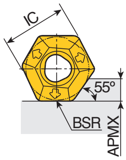
HNC(M)X 05

HEXA2MILL

Inserts



MM/MP/MR/L



W

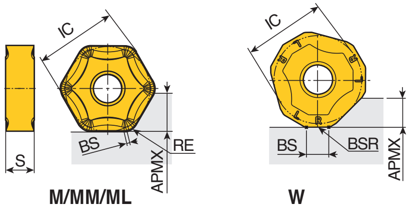
Size	Dimension (mm)					
	IC	S	APMX	BS	RE	BSR
05	12.7	5.0-6.0	5.0	0 - 0.6	1.0	-
05-W	12.7	5.56	5.0	-	-	250

Insert	Designation	Recommended machining conditions		Ceramic		Coated								Uncoated		
		ap (mm)	Feed (mm/tooth)	AS10		TT9080	TT9030	TT8080	TT8525B	TT7080	TT7515	TT6080	TT2510	K10		
	**HNCX 050410-L**	1.5-4.0	0.20-0.05			●		●				●				
	**HNCX 050410R-MP**	1.5-4.0	0.20-0.05			●				●		●				
	**HNCX 050410-MM**	1.5-4.0	0.20-0.05			●	●			●	●	●				
	HNMX 050410-MM	1.5-4.0	0.20-0.07			●	●	●			●	●	●			
	**HNCX 050610-MR**	1.5-4.0	0.25-0.13	●												
	**HNCX 05R-W**	0.1-1.0	0.15-0.05			●	●					●				
	05L-W	0.1-1.0	0.15-0.05									●				

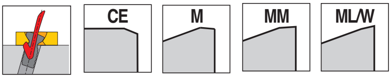
●: Standard items

HNHX 10

Inserts



Size	Dimension (mm)					
	IC	S	APMX	BS	RE	BSR
HNHX10	19.05	6.35	6.1	1.0	1.0	-
HNHX10-W	19.05	6.35	6.1	4.85	-	250

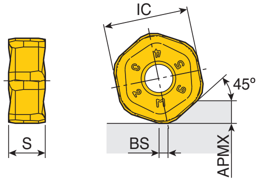


Insert	Designation	Recommended machining conditions		Ceramic		Cermet		Coated						Uncoated		
		ap (mm)	Feed (mm/tooth)	AS10		CT7000		TT9080	TT8080	TT8525B	TT7080	TT7515	TT6080	K10		
	**HNHX 1006 ANTN-M**	1.5-5.0	0.20-0.10					●	●	●	●	●	●			
	**HNHX 1006 ANTN-MM**	1.5-5.0	0.25-0.125					●					●			
	**HNHX 1006 ANTN-ML**	1.5-5.0	0.20-0.10						●				●			
	**HNHX 1006 ANTN-W**	0.1-1.0	0.20-0.10			●		●					●			
	**HNHX 1006 ANTN-CE**	1.5-5.0	0.25-0.125	●												

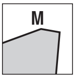
●: Standard items

E88-E89,E94

Inserts

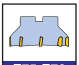


Size	Dimension (mm)					
	IC	S	APMX	BS		
06-MM	14	6.8	3	1.3		
06-M	14	6.8	3	1.0		
10-MM	19.05	8.3	5	1.6		
10-M/HR	19.05	8.3	5	1.0		

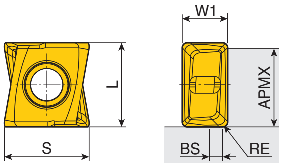


Insert	Designation	Recommended machining conditions		Coated										Uncoated		
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080			K10		
	**HXHU 0605 ANR-MM**	1.0-3.0	0.35-0.10	●							●					
	1007 ANR-MM	2.0-5.0	0.45-0.10								●					
	**HXKU 0605 ANR-M**	1.0-3.0	0.25-0.10	●				●								
	1007 ANR-M	2.0-5.0	0.30-0.10	●				●								
	**HXKU 1007 ANR-HR**	2.0-5.0	0.60-0.10					●								
		2.0-5.0	0.70-0.10							●						

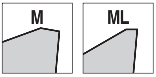
●: Standard items


E75-E76

Inserts

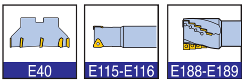


Size	Dimension (mm)					
	L	W1	S	APMX	BS	RE
05	5	2.7	5.0	4.6	-	0.4
09	9	4.5	8.6	8.3	0.6	0.4
14	13.5	6.7	13.5	12.5	0.9	0.8



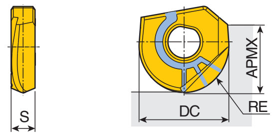
Insert	Designation	Recommended machining conditions: ap (mm)	Recommended machining conditions: Feed (mm/tooth)	Coated: TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	Uncoated: K10
	**LPKU 050204 PNR-M**	1.0-3.5	0.08-0.04	●		●					●	
	090404 PNR-M	2.5-6.0	0.15-0.06	●		●		●			●	
	140708 PNR-M	3.5-10.0	0.20-0.10	●		●		●			●	
	**LPHU 050204 PNR-ML**	1.0-3.5	0.08-0.04			●					●	
	**LPHU 090404 PNR-M**	2.5-6.0	0.15-0.06			●					●	

●: Standard items



NFB

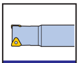
Inserts



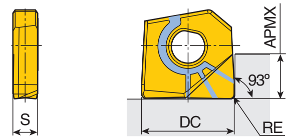
Size	Dimension (mm)					
	DC	S	APMX	RE		
060	6	2.0	4.5-4.8	3.0		
080	8	2.2	6.6-6.9	4.0		
100	10	2.7	8.0-8.2	5.0		
120	12	3.2	9.6-9.7	6.0		
160	16	4.2	12.3-12.7	8.0		
200	20	5.2	14.4-14.7	10.0		
250	25	6.2	16.8-17.4	12.5		
300	30	7.2	18.6-19.2	15.0		
320	32	7.2	18.4-19.2	16.0		

Insert	Designation	Recommended machining conditions ap (mm)	Recommended machining conditions Feed (mm/tooth)	Coated TT9080	TT8080	TT8525B	TT7080	TT7515	TT6080	TT5525	TT5515	TT2510		Uncoated K10		
  Straight cutting edge	**NFB 060-FM**	0.05-0.2	0.15-0.05								●					
	080-FM	0.05-0.3	0.20-0.05							●	●					
	100-FM	0.05-0.3	0.20-0.05							●	●					
	120-FM	0.05-0.5	0.30-0.08							●	●					
	160-FM	0.05-0.5	0.30-0.08							●	●					
	200-FM	0.10-1.0	0.30-0.08							●	●					
	250-FM	0.15-1.0	0.40-0.08							●	●					
	300-FM	0.15-1.0	0.40-0.08							●	●					
	320-FM	0.15-1.0	0.40-0.08							●	●					
  Helical cutting edge	**NFB 060-SM**	0.80-2.5	0.20-0.05								●	●				
	080-SM	1.20-3.2	0.25-0.05							●	●	●				
	100-SM	1.50-4.0	0.25-0.05							●	●	●				
	120-SM	1.80-4.8	0.35-0.08							●	●	●				
	160-SM	2.40-6.4	0.35-0.08							●	●	●				
	200-SM	3.00-8.0	0.35-0.08							●	●	●				
	250-SM	3.75-10.0	0.45-0.08							●	●	●				
	300-SM	4.50-12.0	0.45-0.08							●	●	●				
	320-SM	4.80-12.8	0.45-0.08							●	●	●				

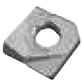
●: Standard items


E161-E163

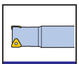
Inserts



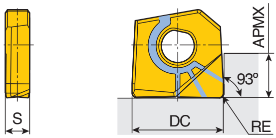
Size	Dimension (mm)					
	DC	S	APMX	RE		
060	6	2.0	2.5	0.3-1.0		
080	8	2.2	3.4	0.3-1.0		
100	10	2.7	4.0	0.3-2.0		
110	11	2.7	4.4	0.3-2.0		
120	12	3.2	5.0	0.3-2.0		
130	13	3.2	5.4	0.3-2.0		
160	16	4.2	6.9	0.3-3.0		
170	17	4.2	7.4	1.0-2.0		

Insert	Designation	Recommended machining conditions		Coated										Uncoated		
		ap (mm)	Feed (mm/tooth)	TT9080	TT8080	TT8525B	TT7080	TT7515	TT6080	TT5525	TT5515	TT2510		K10		
	**NFR 060A-R03**	0.05-0.15	0.10-0.05								●					
	060A-R05	0.10-0.15	0.10-0.05								●					
	060A-R10	0.10-0.15	0.10-0.05								●					
	080A-R03	0.05-0.2	0.12-0.05							●	●	●				
	080A-R05	0.05-0.2	0.12-0.05							●	●	●				
	080A-R06	0.05-0.2	0.12-0.05							●	●	●				
	080A-R10	0.05-0.2	0.12-0.05							●	●	●				
	100A-R03	0.05-0.3	0.12-0.05							●	●	●				
	100A-R05	0.05-0.3	0.12-0.05							●	●	●				
	100A-R08	0.05-0.3	0.12-0.05							●	●	●				
	100A-R10	0.05-0.3	0.12-0.05							●	●	●				
	100A-R15	0.05-0.3	0.12-0.05							●	●	●				
	100A-R20	0.05-0.3	0.12-0.05								●	●				
	110A-R10	0.05-0.3	0.12-0.05							●	●	●				
	110A-R20	0.05-0.3	0.12-0.05							●	●	●				
	120A-R03	0.07-0.3	0.15-0.08							●	●	●				
	120A-R05	0.07-0.3	0.15-0.08							●	●	●				
	120A-R10	0.07-0.3	0.15-0.08							●	●	●				
	120A-R15	0.07-0.3	0.15-0.08							●	●	●				
	120A-R20	0.07-0.3	0.15-0.08							●	●	●				
	130A-R10	0.07-0.3	0.15-0.08							●	●	●				
	130A-R20	0.07-0.3	0.15-0.08							●		●				
	160A-R03	0.08-0.5	0.15-0.08							●	●	●				
	160A-R05	0.08-0.5	0.15-0.08							●	●	●				
	160A-R10	0.08-0.5	0.15-0.08							●	●	●				
	160A-R13	0.08-0.5	0.15-0.08								●	●				
	160A-R15	0.08-0.5	0.15-0.08							●	●	●				
	160A-R20	0.08-0.5	0.15-0.08							●	●	●				
	160A-R30	0.08-0.5	0.15-0.08							●	●	●				
	170A-R10	0.08-0.5	0.15-0.08								●	●				
	170A-R20	0.08-0.5	0.15-0.08								●					

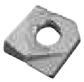
●: Standard items


E161-E166

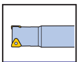
Inserts



Size	Dimension (mm)					
	DC	S	APMX	RE		
200	20	5.2	8.7-9.2	0.3-3.0		
210	21	5.2	9.2	1.0-2.0		
250	25	6.2	10.6	0.3-3.0		
260	26	6.2	11	1.0-2.0		
300	30	7.1	12.7	1.0-2.0		
320	32	7.1	13.6	1.0-2.0		

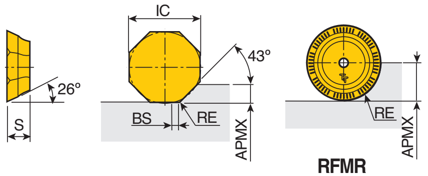
Insert	Designation	Recommended machining conditions		Coated										Uncoated		
		ap (mm)	Feed (mm/tooth)	TT9080	TT8080	TT8525B	TT7080	TT7515	TT6080	TT5525	TT5515	TT2510		K10		
	**NFR 200A-R03**	0.1-0.7	0.15-0.08							●	●	●				
	200A-R05	0.1-0.7	0.15-0.08							●	●	●				
	200A-R10	0.1-0.7	0.15-0.08							●	●	●				
	200A-R15	0.1-0.7	0.15-0.08							●	●	●				
	200A-R16	0.1-0.7	0.15-0.08							●	●	●				
	200A-R20	0.1-0.7	0.15-0.08							●	●	●				
	200A-R30	0.1-0.7	0.15-0.08							●	●	●				
	210A-R10	0.1-0.7	0.15-0.08							●	●	●				
	210A-R20	0.1-0.7	0.15-0.08							●	●	●				
	250A-R03	0.1-1.0	0.15-0.08							●	●	●				
	250A-R05	0.1-1.0	0.15-0.08							●	●	●				
	250A-R10	0.1-1.0	0.15-0.08							●	●	●				
	250A-R15	0.1-1.0	0.15-0.08							●	●	●				
	250A-R20	0.1-1.0	0.15-0.08							●	●	●				
	250A-R30	0.1-1.0	0.15-0.08							●	●	●				
	260A-R10	0.1-1.0	0.15-0.08							●	●	●				
	260A-R20	0.1-1.0	0.15-0.08							●	●	●				
	300A-R05	0.1-1.0	0.20-0.08							●	●	●				
	300A-R10	0.1-1.0	0.20-0.08								●	●				
	300A-R20	0.1-1.0	0.20-0.08								●	●				
	320A-R10	0.1-1.0	0.20-0.08							●	●	●				
	320A-R20	0.1-1.0	0.20-0.08								●	●				

●: Standard items



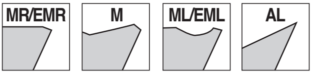
E161-E166

Inserts



RFMR

Size	Dimension (mm)					
	IC	S	APMX	BS	RE	
OF... 07	17.94	5.0-5.1	5.0	1.3-2.2	0.8	
RFMR 19	19.00	5.3	9.5	-	9.5	

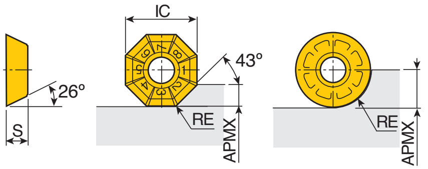


Insert	Designation	Recommended machining conditions ap (mm)	Recommended machining conditions Feed (mm/tooth)	Cermet CT7000	Cermet	Coated TT9080	Coated TT9030	Coated TT8080	Coated TT8020	Coated TT8525B	Coated TT7080	Coated TT7515	Coated TT6080	Uncoated K10	Uncoated	Uncoated
	**OFCN 0704 TN-MR**	1.5-4.0	0.20-0.08	●							●		●			
	**OFCN 0704 TN-EMR**	1.5-4.0	0.15-0.08			●		●	●	●	●		●			
	**OFMR 0704 AER-M**	1.5-4.0	0.19-0.10			●	●	●	●	●	●		●			
	**OFMR 0704 TN-AL**	1.5-4.0	0.15-0.08											●		
	**OFCR 0704 TN-ML**	1.5-4.0	0.15-0.05						●		●		●	●		
	**OFCR 0704 TN-EML**	1.5-4.0	0.15-0.08			●	●	●	●	●	●		●			
	**RFMR 1904-M**	2.5-8.0	0.14-0.107			●	●		●		●		●			

●: Standard items

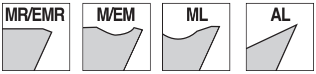
OFCW(T) 05/OFMT 05/RFMT 14

Inserts



RFMT

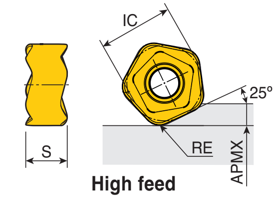
Size	Dimension (mm) IC	S	APMX	RE
OF... 05	12.7	3.76-3.86	3.5	0.5-0.8
RFMT 14	14.0	4.53	7.0	7.0

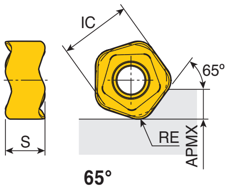


Insert	Designation	Recommended machining conditions: ap (mm)	Recommended machining conditions: Feed (mm/tooth)	Cermet: CT7000	Coated: TT9080	Coated: TT9030	Coated: TT8080	Coated: TT8020	Coated: TT8525B	Coated: TT7080	Coated: TT7515	Coated: TT6080	Uncoated: K10
	**OFCW 05T3 TN-MR**	1.0-3.0	0.08-0.04		●					●		●	
	05T3 TN-EMR	1.0-3.0	0.15-0.08		●	●		●		●		●	
	**OFCT 05T3 TN-M**	1.0-3.0	0.15-0.08		●					●		●	●
	05T3 TN-EM	1.0-3.0	0.10-0.05		●	●		●		●		●	
	**OFCT 05T3 TN-AL**	1.0-3.0	0.50-0.10										●
	**OFMT 05T3 TN-ML**	1.0-3.0	0.12-0.06		●	●	●	●	●	●		●	●
	**RFMT 1404-ML**	2.0-6.0	0.27-0.14		●			●		●		●	

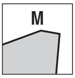
●: Standard items

Inserts



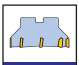


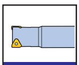
Size	Dimension (mm)			
	IC	S	APMX	RE
05(HF)	7.1	3.8	1.5	1.5
05(65°)	7.1	3.8	3.3	1.5
10(HF)	14.2	7.7	3.0	3.0
10(65°)	14.2	7.7	6.5	3.0



Insert	Designation	Recommended machining conditions: ap (mm)	Recommended machining conditions: Feed (mm/tooth)	Coated: TT9080	Coated: TT9030	Coated: TT8080	Coated: TT8020	Coated: TT8525B	Coated: TT7080	Coated: TT7515	Coated: TT6080	Uncoated: K10
	**PTKU 0503R-M** (High feed)	0.2-1.5	1.20-0.20	●		●						
	1006R-M (High feed)	0.3-2.0	2.00-0.30	●		●						
	PTKU 0503R-M (65°)	1.0-3.0	0.20-0.07	●		●						
	1006R-M (65°)	1.5-5.0	0.25-0.10	●		●						

● : Standard items

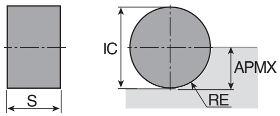

E71, E106


E176

RNGN 12-FL

CHASESPEED

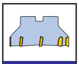
Inserts



Size	Dimension (mm)					
	RE	IC	S	APMX		
12	6.35	12.7	7.94	6.3		

Insert	Designation	Recommended machining conditions		Ceramic		Coated								Uncoated		
		ap (mm)	Feed (mm/tooth)	TC3020	TC3030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510		K10		
	**RNGN 1207 FL-E**	0.5-3.0	0.25-0.10	●	●											
	1207 FL-E04	0.5-3.0	0.25-0.10	●	●											
	1207 FL-T6	0.5-3.0	0.25-0.10	●	●											

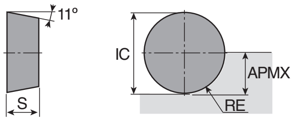
●: Standard items


E102

RPGN 09/12-FL

CHASESPEED

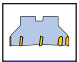
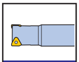
Inserts



Size	Dimension (mm)					
	RE	IC	S	APMX		
09	4.76	9.52	3.18	4.7		
12	6.35	12.7	4.76	6.3		

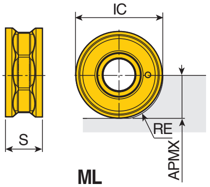
Insert	Designation	Recommended machining conditions		Ceramic		Coated								Uncoated		
		ap (mm)	Feed (mm/tooth)	TC3020	TC3030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510		K10		
	**RPGN 0903 FL-E04**	0.5-1.5	0.15-0.07	●	●											
	1204 FL-E	0.5-2.0	0.20-0.07	●	●											
	1204 FL-E04	0.5-2.0	0.20-0.07	●	●											
	1204 FL-T6	0.5-2.0	0.20-0.07	●	●											

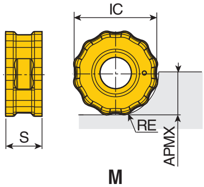
●: Standard items


E103

E167-E168

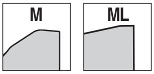
CHASE2MOLD

Inserts



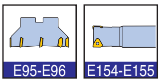


Size	Dimension (mm)					
	RE	IC	S	APMX		
10	5	10	4.5	5		
12	6	12	5.0	6		
16	8	16	6.3	8		



Insert	Designation		Recommended machining conditions		Coated										Uncoated		
			ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510		K10		
	**RNMU**	**1004-ML**	1.5-4.0	0.30-0.05	●		●	●	●				●				
		1205-ML	1.5-5.0	0.35-0.05	●		●	●	●				●				
		1606-ML	2.0-6.5	0.40-0.05	●		●	●	●				●				
	**RNMU**	**1004S-M**	1.5-4.0	0.35-0.05	●		●	●	●				●				
		1205S-M	1.5-5.0	0.40-0.05	●		●	●	●				●				
		1606S-M	2.0-6.5	0.45-0.05	●		●	●	●				●				

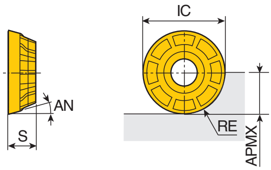
●: Standard items



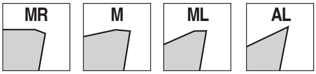
TaeguTec
Member IMC Group

CHASEMOLD

Inserts

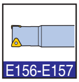


Size	Dimension (mm)					
	RE	IC	S	APMX	AN	
05	2.5	5	1.5	2.5	15°	
07	3.5	7	2.38	3.5	15°	
10	5.0	10	3.18	5.0	15°	
12	6.0	12	3.97	6.0	15°	
16	8.0	16	4.76	8.0	15°	
20	10.0	20	6.35	10.0	11°	



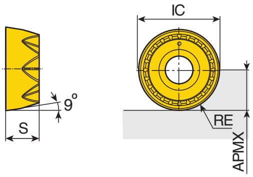
Insert	Designation	Recommended machining conditions ap (mm)	Recommended machining conditions Feed (mm/tooth)	Coated TT9080	Coated TT9030	Coated TT8080	Coated TT8020	Coated TT8525B	Coated TT7080	Coated TT7515	Coated TT6080			Uncoated K10		
	**RDMX 0501-M**	0.5-2.0	0.25-0.04	●	●	●	●		●		●					
	0702-M	1.0-3.0	0.25-0.05	●	●	●	●		●		●					
	**RXMX 1003-M**	1.5-4.0	0.30-0.10	●		●	●		●		●					
	12T3-M	1.8-5.0	0.50-0.10	●	●	●	●	●	●		●					
	1604-M	2.0-6.5	0.50-0.10	●	●	●	●	●	●		●					
	2006-M	3.0-8.0	0.50-0.10	●	●	●	●	●								
	**RXMX 1003-ML**	1.5-4.0	0.30-0.05	●	●	●	●									
	12T3-ML	1.5-5.0	0.45-0.05	●	●		●	●								
	1604-ML	2.0-6.5	0.45-0.10	●		●	●									
	**RXMX 1003-MR**	1.5-4.0	0.30-0.05	●	●	●			●							
	12T3-MR	1.5-5.0	0.35-0.05	●	●		●		●		●					
	1604-MR	2.0-6.5	0.40-0.10	●	●		●		●							
	2006-MR	3.0-8.0	0.40-0.10	●	●		●									
	RXHX 1003-MR	1.5-4.0	0.30-0.05	●												
	12T3-MR	1.5-5.0	0.35-0.05	●			●		●							
	**RXHX 1003-AL**	1.5-4.0	0.80-0.10											●		
	12T3-AL	1.5-5.0	0.80-0.10											●		

●: Standard items

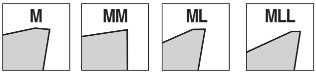


CHASEMOLD

Inserts

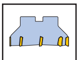


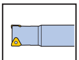
Size	Dimension (mm)					
	RE	IC	S	APMX		
08	4	8	3.2	4		
10	5	10	4.0	5		
12	6	12	4.8	6		
16	8	16	6.1	8		
20	10	20	7.0	10		



Insert	Designation	Recommended machining conditions: ap (mm)	Recommended machining conditions: Feed (mm/tooth)	Coated: TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510		Uncoated: K10		
	**RYMX 0803-M**	1.0-3.5	0.25-0.05	●		●		●	●		●	●				
	1004-M	1.5-4.0	0.30-0.10	●		●	●	●	●		●	●				
	1205-M	1.5-5.0	0.50-0.10	●		●	●	●	●		●	●				
	1205-6M	1.5-5.0	0.50-0.10	●								●				
	1606-M	2.0-6.5	0.50-0.10	●		●	●	●	●		●	●				
	1606-7M	2.0-6.5	0.50-0.10	●				●				●				
	2007-M	3.0-8.0	0.50-0.10	●		●	●	●	●		●	●				
	**RYMX 0803-MM**	1.0-3.5	0.30-0.07	●		●	●									
	1004-MM	1.5-4.0	0.35-0.07	●		●	●									
	1205-MM	1.5-5.0	0.40-0.10	●		●	●	●								
	1205-6MM	1.5-5.0	0.40-0.10	●												
	1606-MM	2.0-6.5	0.45-0.10	●		●	●									
	1606-7MM	2.0-6.5	0.45-0.10	●		●	●									
	RYHX 1205-MM	3.0-8.0	0.40-0.10	●			●									
	**RYMX 0803-ML**	1.0-3.5	0.25-0.05	●		●	●	●								
	1004-ML	1.5-4.0	0.30-0.05	●		●	●	●								
	1205-ML	1.5-5.0	0.35-0.05	●		●	●	●								
	1205-6ML	1.5-5.0	0.35-0.05	●		●										
	1606-ML	2.0-6.5	0.40-0.05	●		●	●	●								
	1606-7ML	2.0-6.5	0.40-0.05	●												
	2007-ML	3.0-8.0	0.50-0.10	●		●	●	●	●							
	RYHX 0803-ML	1.0-3.5	0.25-0.05	●		●	●									
	1004-ML	1.5-4.0	0.30-0.05	●		●	●									
	1205-ML	1.5-5.0	0.35-0.05	●		●	●									
	1606-ML	2.0-6.5	0.40-0.10	●		●										
	**RYMX 0803-MLL**	1.0-3.5	0.25-0.05			●	●									
	1004-MLL	1.5-4.0	0.30-0.05	●		●	●									
	1205-MLL	1.5-5.0	0.35-0.05	●		●	●									
	RYHX 0803-MLL	1.0-3.5	0.25-0.05			●	●									
	1004-MLL	1.5-4.0	0.30-0.05			●										
	1205-MLL	1.5-5.0	0.35-0.05	●		●	●									

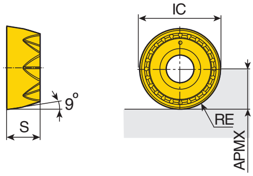
●: Standard items


E99-E101


E137-E139

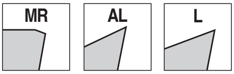
RYM(H)X

Inserts



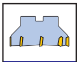
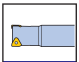
Size	Dimension (mm)					
	RE	IC	S	APMX		
08	4	8	3.2	4		
10	5	10	4.0	5		
12	6	12	4.8	6		
16	8	16	6.1	8		
20	10	20	7.0	10		

MR **AL** **L**



Insert	Designation	Recommended machining conditions ap (mm)	Feed (mm/tooth)	Coated TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510		Uncoated K10		
	**RYMX 0803-MR**	1.0-3.5	0.30-0.05	●				●	●		●	●				
	1004-MR	1.5-4.0	0.35-0.05	●		●			●		●	●				
	1205-MR	1.5-5.0	0.35-0.05	●		●			●		●	●				
	1606-MR	2.0-6.5	0.40-0.05	●				●	●		●	●				
	2007-MR	1.0-3.5	0.45-0.10	●				●			●	●				
	RYHX 0803-MR	1.5-4.0	0.30-0.05	●								●				
	1004-MR	1.5-5.0	0.35-0.05	●							●	●				
	1205-MR	2.0-6.5	0.35-0.05	●							●	●				
	**RYHX 0803-AL**	1.0-3.5	0.80-0.10											●		
	1004-AL	1.5-4.0	0.80-0.10											●		
	1205-AL	1.5-5.0	0.80-0.10											●		
	1606-AL	2.0-6.5	0.80-0.10											●		
	**RYHX 0803-L**	1.0-3.5	0.25-0.05			●										
	1004-L	1.5-4.0	0.30-0.05	●		●	●									
	1205-L	1.5-5.0	0.35-0.05	●		●	●									

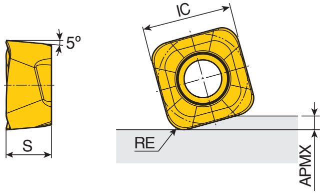
●: Standard items


E99-E101

E158-E160

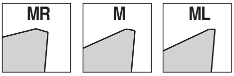
CHASEFEED

SBMT

Inserts

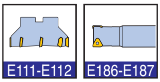


Size	Dimension (mm)					
	IC	S	APMX	RE		
09	9.0	4.0	1.2	1.5		
13	13.1	6.7	2.0	2.5		



Insert	Designation	Recommended machining conditions ap (mm)	Recommended machining conditions Feed (mm/tooth)	Coated TT9080	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510			Uncoated K10		
	**SBMT 090415R-M**	0.1-1.2	2.00-0.20	●	●	●	●	●		●	●					
	130625R-M	0.5-2.0	2.00-0.42	●	●	●	●	●		●	●					
	**SBMT 090415R-ML**	0.1-1.2	1.50-0.10	●	●											
	130625R-ML	0.5-2.0	2.00-0.42	●	●											
	**SBMT 090415R-MR**	0.1-1.2	2.50-0.30	●			●				●					
	130625R-MR	0.5-2.0	2.00-0.42	●							●					

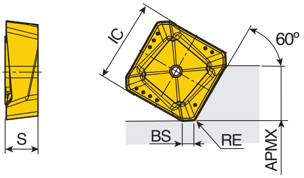
●: Standard items



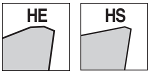
SCKN 21/27

LIONMILL

Inserts



Size	Dimension (mm)					
	IC	S	APMX	BS	RE	
21-HE	20.8	7	13	2	1.5	
21-HS	21	6.95	13	2	1.5	
27-HE	26.8	8.95	18	2	2	
27-HS	27	8.9	18	2	2	



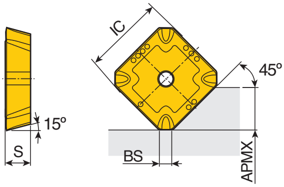
Insert	Designation	Recommended machining conditions		Coated										Uncoated		
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080			K10		
	**SCKN 2107 DDTR-HE**	3.5-10.5	0.25-0.13					●	●	●						
	2708 DDTR-HE	5.0-14.5	0.30-0.15					●	●							
	**SCKN 2107 DDTR-HS**	3.5-10.5	0.25-0.13					●								
	2708 DDTR-HS	5.0-14.5	0.25-0.13					●								

●: Standard items

SDKN 12/15

LIONMILL

Inserts



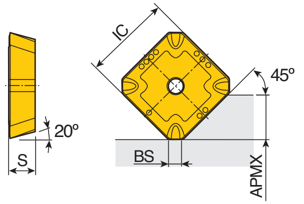
Size	Dimension (mm)				
	IC	S	APMX	BS	
12	12.7	3.18	6.5	2.00	
15	15.875	4.76	8.7	1.89	

Insert	Designation	Recommended machining conditions		Coated										Uncoated		
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080			K10		
	**SDKN 1203 MT-HPN**	1.5-6.0	0.25-0.10						●							
	1504 MT-HPN	1.5-8.0	0.25-0.10						●							
	**SDKN 1203 MT-GPN**	1.5-6.0	0.25-0.10						●							

●: Standard items

SEKN 12/15

Inserts



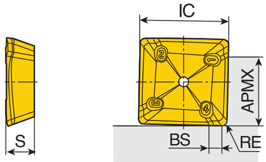
Size	Dimension (mm)					
	IC	S	APMX	BS		
12	12.7	3.18	6.5	2.08		
15	15.875	4.76	8.7	2.06		

Insert	Designation		Recommended machining conditions		Coated										Uncoated		
			ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080			K10		
	**SEKN**	**1203 AFTN-HPN**	1.5-6.0	0.25-0.10						●							
		1504 AFTN-HPN	1.5-8.0	0.25-0.10						●							

●: Standard items

SEKX 21

Inserts



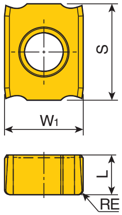
Size	Dimension (mm)					
	IC	S	APMX	BS	RE	
21 PETR-M	21.85	7	17	2	1.2	

Insert	Designation		Recommended machining conditions		Coated										Uncoated		
			ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080			K10		
	**SEKX**	**2107 PETR-M**	5.5-13.0	0.22-0.10					●			●					

●: Standard items

TOPSLOT

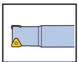
Inserts



Size	Dimension (mm)					
	S	W_1	L	RE		
018	8	6.5	1.8	0.4		
023	8	6.5	2.3	0.4		
028	8	6.5	2.8	0.4		
033	8	6.5	3.3	0.4		

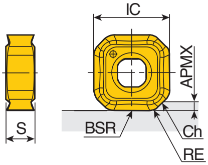
Insert	Designation	Recommended machining conditions		Coated										Uncoated		
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080			K10		
	**SLOT 018-04**	-	0.08-0.05	●		●					●					
	023-04	-	0.08-0.05	●		●					●					
	028-04	-	0.08-0.05	●		●					●					
	033-04	-	0.10-0.06	●		●					●					

●: Standard items

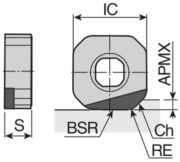


E202-E203

Inserts

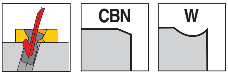


P-W



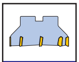
CBN

Size	Dimension (mm)					
	IC	S	APMX	RE	BSR	Ch
1204 P-W	12.7	4.76	1.0	2.0	450	2.5
1204-W	12.7	4.76	1.0	2.0	800	-
1205-W	12.7	5.56	1.0	2.0	450	2.5
1204R-CBN	12.7	4.76	1.0	0.8	250	1.5

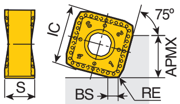


Insert	Designation	Recommended machining conditions		Cermet	CBN	Coated				Uncoated
		ap (mm)	Feed (mm/tooth)	CT3000	TB7015	TT9080	TT9030	TT7515	TT6080	K10
	**SNEX 1204 P-W**	0.3-0.8	0.15-0.07						●	●
	**SNEX 1204-W**	0.3-0.8	0.15-0.07						●	
	**SNET 1205-W**	0.3-0.8	0.15-0.07	●		●			●	
	**SNEX 1204R-CBN**	0.3-0.8	0.12-0.08		●					

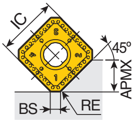
●: Standard items


E62-E63

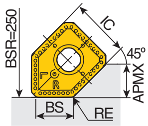
Inserts



ENTN/XTN

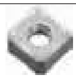
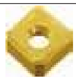


AN(T)N/XTN

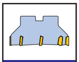


W

Size	Dimension (mm)				
	IC	S	APMX	BS	RE
13 ENTN-M	13.5	7.0	9.5	2.2	0.4
13 ANTN-M/ML/AL	13.5	6.8	7.0	2.2	0.4
13 ANTR-MP	13.5	6.8	6.0	2.2	0.4
13 ANTN-W	13.5	6.8	7.0	7.5	1.2
13 XTN(75º)	13.5	6.8	9.6	1.4	0.4
13 XTN(45º)	13.5	6.8	6.35	1.4	0.4

Insert	Designation	Recommended machining conditions		Coated										Uncoated		
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510		K10		
	**SNGX 1306 ENTN-M**	2.5-8.0	0.20-0.10	●		●		●		●	●					
	SNMX 1306 ENTN-M	2.5-8.0	0.20-0.10	●		●		●		●	●	●				
	**SNGX 1306 ANTN-M**	2.0-6.0	0.20-0.10	●		●		●	●	●	●					
	1306 ANTN-ML	2.0-6.0	0.25-0.13	●		●					●					
	SNMX 1306 ANTN-M	2.0-6.0	0.20-0.10	●		●		●	●	●	●	●				
	**SNGX 1306 ANN-AL**	2.0-6.0	0.35-0.10											●		
	**SNMX 1306 ANTR-MP**	2.0-6.0	0.20-0.10	●		●		●			●					
	**SNMX 1306 XTN**	2.5-6.5	0.20-0.10	●		●			●	●	●	●				
	**SNGX 1306 ANTN-W**	0.2-1.0	0.20-0.10	●							●					

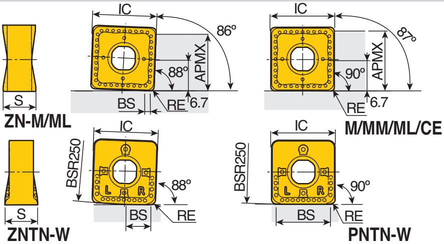
●: Standard items



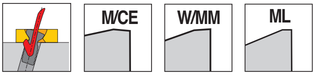
E68,E82-E83

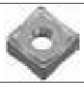
CHASE2QUAD

Inserts



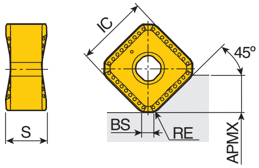
Size	Dimension (mm)					
	IC	S	APMX	BS	RE	
13	13.5	6.8-7.0	10-12	1.2-5.3	0.4-1.6	
13 -W	13.5	6.8	10-12	11.5	1.0	



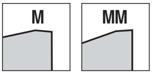
Insert	Designation	Recommended machining conditions		Ceramic		Coated								Uncoated		
		ap (mm)	Feed (mm/tooth)	AS10		TT9080	TT9030	TT8080	TT8525B	TT7080	TT7515	TT6080	TT2510	K10		
	**SNGX 1306 ZN-M**	3.5-10.0	0.20-0.10			●		●		●	●	●				
	**SNGX 1306 ZN-ML**	3.5-10.0	0.25-0.13			●		●				●				
	1306C08 ZN-M	3.5-10.0	0.20-0.10			●				●	●	●				
	130608-MM	3.5-10.0	0.15-0.08					●								
	130612-MM	3.5-10.0	0.15-0.08								●					
	130616-MM	3.5-10.0	0.15-0.08					●		●						
	130608-ML	3.5-10.0	0.25-0.13								●	●				
	130612-ML	3.5-10.0	0.25-0.13								●					
	**SNGX 130608-M**	3.5-10.0	0.20-0.10			●				●	●	●	●			
	130612-M	3.5-10.0	0.20-0.10			●				●	●	●				
	130616-M	3.5-10.0	0.20-0.10			●		●	●	●	●	●				
	130620-M	3.5-10.0	0.20-0.10			●				●	●	●				
	**SNGX 130608-CE**	3.5-10.0	0.25-0.13	●												
	**SNGX 1306 ZNTN-W**	0.2-1.0	0.20-0.10			●						●				
	1306 PNTN-W	0.2-1.0	0.20-0.10			●						●				

●: Standard items

Inserts



Size	Dimension (mm)					
	IC	S	APMX	BS	RE	
SNMX 16	16.7	7.8	8.8	2.4	0.8	
SNHX 16	16.7	6.4	8.8	2.4	0.8	

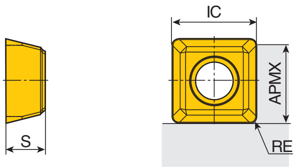


Insert	Designation	Recommended machining conditions		Coated									Uncoated		
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080		K10		
	**SNMX 1607 ANTN-M**	2.5-7.5	0.25-0.13	●		●	●	●	●		●				
	**SNHX 1606 ANN-MM**	2.5-7.5	0.20-0.10						●		●				

●: Standard items

SPMG/SPMT/XOMT

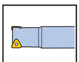
Inserts

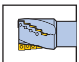


Size	Dimension (mm)			
	IC	S	APMX	RE
06	6.16	2.56	5.6	0.4
09	9.8	4.3	9.0	0.8
11	11.5	4.8	10.7	0.8
14	14.2	5.2	13.4	0.8

Insert	Designation	Recommended machining conditions: ap (mm)	Recommended machining conditions: Feed (mm/tooth)	Cermet: CT7000	Cermet	Coated: TT9080	Coated: TT9030	Coated: TT8080	Coated: TT8020	Coated: TT8525B	Coated: TT7080	Coated: TT7515	Coated: TT6080	Uncoated: K10	Uncoated	Uncoated
	**SPMG 090404-EM**	2.5-7.5	0.15-0.08						●							
	090408-EM	2.5-7.5	0.15-0.08			●			●		●		●			
	110408-EM	3.0-8.5	0.16-0.09			●	●	●	●		●		●			
	140508-EM	4.0-11.0	0.18-0.10			●		●	●		●		●			
	**SPMT 090408-EM**	2.5-7.5	0.15-0.08			●	●		●		●		●			
	110408-EM	3.0-8.5	0.16-0.09			●	●	●	●		●	●	●			
	140508-EM	4.0-11.0	0.18-0.10			●		●	●	●	●		●			
	**XOMT 060204**	1.5-4.5	0.06-0.03				●		●							

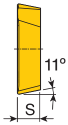
●: Standard items

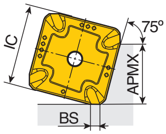

E150-E152


E199

SPKN 12/15

Inserts





Size	Dimension (mm)					
	IC	S	APMX	BS		
12	12.7	3.18	9.5	1.2-1.6		
15	15.875	4.76	12.5	1.4-1.6		

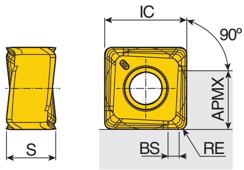
Insert	Designation	Recommended machining conditions		Coated										Uncoated		
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080			K10		
	**SPKN 1203 EDTR-HPN**	1.5-7.0	0.25-0.10						●							
	1504 EDTR-HPN	1.5-10.0	0.25-0.10						●							
	**SPKN 1203 EDR-HPN**	1.5-7.0	0.25-0.10				●				●					
	1504 EDR-HPN	1.5-10.0	0.25-0.10				●				●					

●: Standard items

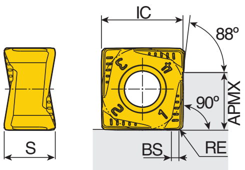
SQK(H)U

CHASE8MILL

Inserts

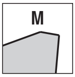


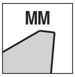
07



12

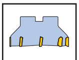
Size	Dimension (mm)					
	IC	S	APMX	BS	RE	
07	7.0	4.16	5.0	0.9	0.8	
12	12.2	8.06	8.5	1.1	0.8	

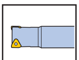




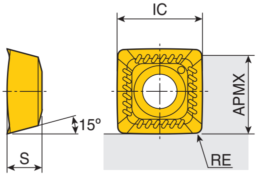
Insert	Designation	Recommended machining conditions: ap (mm)	Recommended machining conditions: Feed (mm/tooth)	Coated: TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510		Uncoated: K10		
	**SQKU 070308 PNR-M**	1.0-4.0	0.20-0.10	●		●					●					
	**SQKU 120608 PNR-M**	2.0-6.5	0.25-0.15	●				●			●	●				
	**SQHU 120608 PNR-MM**	2.0-6.5	0.25-0.15	●							●					

●: Standard items

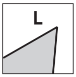

E58-E59


E147

Inserts

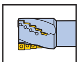


Size	Dimension (mm)					
	IC	S	APMX	RE		
114508	11	4.5	10	0.8		
114516	11	4.5	9	1.6		



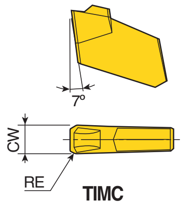
Insert	Designation	Recommended machining conditions ap (mm)	Recommended machining conditions Feed (mm/tooth)	Coated TT9080	Coated TT9030	Coated TT8080	Coated TT8020	Coated TT8525B	Coated TT7080	Coated TT7515	Coated TT6080	Coated	Coated	Uncoated K10	Uncoated	Uncoated
	**SVKT 114508-ML**	10.0	0.15-0.04	●		●										
	114516-ML	9.0	0.15-0.04	●		●										
	**SVKT 114508-L**	10.0	0.12-0.03	●		●										
	**SVHT 114508-L**	10.0	0.12-0.03	●		●										

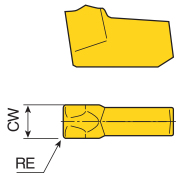
●: Standard items


E190-E191

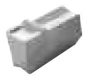
TIMC/J

Slotting inserts





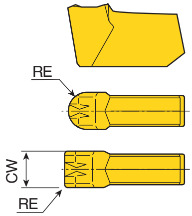
Size	Dimension (mm)		
	Seat size	CW±0.1	RE
1.6	1	1.6	0.16
2	2	2.2	0.20
2.4	2	2.4	0.20
3	4	3.1	0.20
4	4	4.1	0.25
4.8	4	4.8	0.28

Insert	Designation		Recommended machining conditions		Coated										Uncoated		
			ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT7220	TT7080	TT6030	TT5100			K10		
	**TIMC**	**1.6**	-	0.12-0.04		●		●	●		●				●		
		2	-	0.13-0.05		●		●	●		●				●		
		2.4	-	0.15-0.06		●											
		3	-	0.18-0.06		●		●	●		●	●			●		
		4	-	0.20-0.08		●		●	●		●				●		
		4.8	-	0.20-0.08				●				●			●		
	**TIMJ**	**2**	-	0.12-0.04				●				●					
		2.4	-	0.13-0.05				●			●				●		
		3	-	0.15-0.05				●				●			●		
		4	-	0.18-0.05				●			●	●			●		
		4.8	-	0.18-0.05				●			●				●		

●: Standard items

TIPV

Slotting inserts

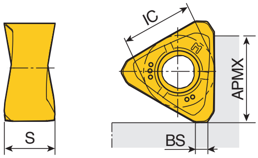


Size	Dimension (mm)			
	Seat size	CW±0.1	RE	
TIPV...E ...	3, 4	3.0-4.5	0.4-2.0	
TIPV 1.85-2.15	2	1.85-2.15	0.1-0.2	
TIPV 2.65-4.15	3, 4	2.65-4.15	0.15-0.20	

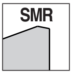
Insert	Designation	Recommended machining conditions		Coated										Uncoated		
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT7220	TT7080	TT6030	TT5100			K10		
	**TIPV 3.00E 0.40**	-	0.18-0.06							●	●					
	4.00E 0.40	-	0.20-0.08								●					
	4.50E 0.40	-	0.20-0.08													
	3.00E 1.50	-	0.18-0.06							●	●					
	4.00E 2.00	-	0.20-0.08							●	●			●		
	1.85 0.10	-	0.13-0.05							●	●					
	2.00 0.20	-	0.13-0.05							●	●					
	2.15 0.15	-	0.13-0.05							●	●			●		
	2.65 0.15	-	0.18-0.06								●					
	3.00 0.20	-	0.18-0.06							●	●			●		
	3.18 0.20	-	0.18-0.06							●				●		
	4.00 0.20	-	0.20-0.08								●					
	4.15 0.15	-	0.20-0.08								●					

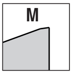
●: Standard items

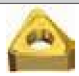
Inserts



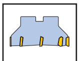
Size	IC	S	APMX	BS		
	Dimension (mm)					
18	11.65	8	13	1.4		
22	12.7	8	15	2.2		

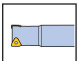


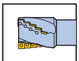


Insert	Designation	Recommended machining conditions ap (mm)	Feed (mm/tooth)	Coated TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510		Uncoated K10		
	**TNMX 1806 PNTR-M**	1.0-11.0	0.15-0.07	●		●		●	●	●	●	●				
	**TNMX 1806 PNTR-SMR2**	2.7-11.0	0.20-0.10	●		●		●		●	●					
	**TNMX 1806 PNTR-SMR3**	2.7-11.0	0.20-0.10	●		●		●		●	●					
	**TNGX 2207 PNTN**	1.0-13.0	0.20-0.10	●		●		●	●		●					
	TNMX 2207 PNTN	1.0-13.0	0.20-0.10	●		●		●	●		●	●				

●: Standard items

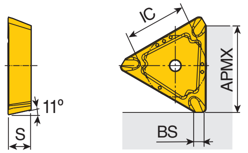






TPKN 22

Inserts

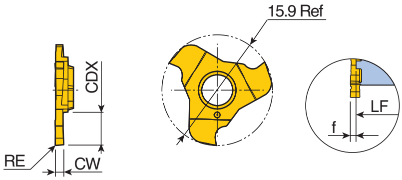


Size	Dimension (mm)					
	IC	S	APMX	BS		
22	12.7	4.76	17.6	1.41-1.7		

Insert	Designation	Recommended machining conditions ap (mm)	Recommended machining conditions Feed (mm/tooth)	Coated TT9080	Coated TT9030	Coated TT8080	Coated TT8020	Coated TT8525B	Coated TT7080	Coated TT7515	Coated TT6080			Uncoated K10		
	**TPKN 2204 PDTR-HPN**	1.5-13.0	0.25-0.10						●							
	**TPKN 2204 PDR-HPN**	1.5-13.0	0.25-0.10				●				●					

●: Standard items

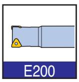
Inserts



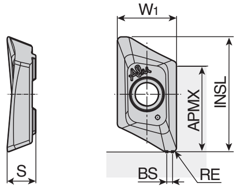
Size	CW	RE	CDX	Size	CW	RE	CDX
	Dimension (mm)				Dimension (mm)		
1.2	1.2	0.05	4.6	**3.0**	3.0	0.20	4.8
1.4	1.4	0.10	4.8	**3.25**	3.25	0.15	4.8
1.5	1.5	0.10	4.8	**4.0**	4.0	0.20	4.8
1.7	1.7	0.10	4.8	**4.25**	4.25	0.15	4.8
1.95	1.95	0.15	4.8	**5.0**	5.0	0.20	4.8
2.0	2.0	0.20	4.8	**5.25**	5.25	0.15	4.8
2.25	2.25	0.15	4.8	**6.0**	6.0	0.20	4.8
2.75	2.75	0.15	4.8				

Insert	Designation	Recommended machining conditions CW (mm)	Recommended machining conditions Feed (mm/tooth)	f (mm)	Coated TT9080	Coated TT9030	Coated TT8080	Coated TT8020	Coated TT8525B	Coated TT7080	Coated TT7515	Coated TT6080	Uncoated K10
	**TS16- 1.2-R0.05**	1.20	0.08-0.02	0.5		●							
	1.4-R0.1	1.40	0.10-0.02	0.5		●							
	1.5-R0.1	1.50	0.12-0.03	0.5		●							
	1.7-R0.1	1.70	0.12-0.03	0.5		●							
	1.95-R0.15	1.95	0.15-0.04	0.5		●							
	2.0-R0.2	2.00	0.15-0.04	0.5		●							
	2.25-R0.15	2.25	0.15-0.04	0.75		●							
	2.75-R0.15	2.75	0.20-0.04	1.39	●	●							
	3.0-R0.2	3.00	0.20-0.04	1.39	●	●							
	3.25-R0.15	3.25	0.20-0.04	1.39		●							
	4.0-R0.2	4.00	0.25-0.05	2.43		●							
	4.25-R0.15	4.25	0.25-0.05	0.95		●							
	5.0-R0.2	5.00	0.30-0.05	2.15		●							
	5.25-R0.15	5.25	0.30-0.05	2.15		●							
	6.0-R0.2	6.00	0.30-0.05	3.15		●							

●: Standard items



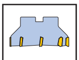
Inserts

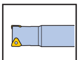


Size	Dimension (mm)					
	INSL	W_1	S	APMX	BS	RE
16	18.3-22.2	11.2	5.1-5.5	14-16	0.6-1.5	0.4-5.0
22	22.4-28	13.6	6.8-7.4	18.5-21	1.2-1.7	0.5-6.4

Insert	Designation	Recommended machining conditions: ap (mm)	Recommended machining conditions: Feed (mm/tooth)	Coated: TT9080	Coated: TT9030	Coated: TT8080	Coated: TT8020	Coated: TT8525B	Coated: TT7080	Coated: TT7515	Coated: TT6080	Uncoated: K10
	**XEVT 160504R-AL**	3.5-12.0	0.4-0.1									●
	160508R-AL	3.5-12.0	0.4-0.1									●
	160512R-AL	3.5-12.0	0.4-0.1									●
	160516R-AL	3.5-12.0	0.4-0.1									●
	160520R-AL	3.5-12.0	0.4-0.1									●
	160524R-AL	3.5-12.0	0.4-0.1									●
	160530R-AL	3.5-12.0	0.4-0.1									●
	160532R-AL	3.5-12.0	0.4-0.1									●
	160540R-AL	3.5-12.0	0.4-0.1									●
	160550R-AL	3.5-12.0	0.4-0.1									●
	220605R-AL	3.5-18.0	0.6-0.1									●
	220608R-AL	3.5-18.0	0.6-0.1									●
	220616R-AL	3.5-18.0	0.6-0.1									●
	220620R-AL	3.5-18.0	0.6-0.1									●
	220630R-AL	3.5-18.0	0.6-0.1									●
	220632R-AL	3.5-18.0	0.6-0.1									●
	220640R-AL	3.5-18.0	0.6-0.1									●
	220650R-AL	3.5-18.0	0.6-0.1									●
	220664R-AL	3.5-18.0	0.6-0.1									●

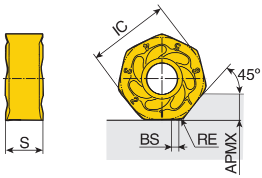
●: Standard items


E60

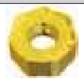

E148-E149

XNM(H)U 06

Inserts



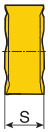
Size	Dimension (mm)					
	IC	S	APMX	BS	RE	
06(M, MM, ML)	13.7	6.2	3.5	1.0	1.0	
06-MT	13.7	6.0	4.2	-	0.8	
06-MLW	13.7	6.2	3.5	1.5	0.2	

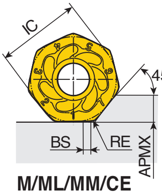
Insert	Designation	Recommended machining conditions		Ceramic		Coated								Uncoated		
		ap (mm)	Feed (mm/tooth)	AS10		TT9080	TT9030	TT8080	TT8525B	TT7080	TT7515	TT6080	TT2510	K10		
	**XNMU 0605 ANR-M**	1.0-3.0	0.20-0.10			●				●		●				
	**XNHU 0605 ANN-MM**	1.0-3.5	0.20-0.10			●					●	●	●			
	**XNHU 0605 ANN-ML**	1.0-3.5	0.20-0.10			●		●				●				
	**XNMU 060508-MT**	1.0-4.2	0.30-0.10					●								
	**XNHU 0605 ANR-MLW**	0.3-1.0	0.15-0.08					●								

●: Standard items

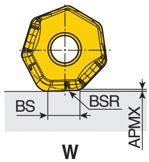
XNM(H)U 09

Inserts



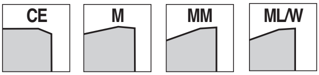


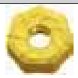
M/ML/MM/CE



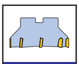
W

Size	Dimension (mm)					
	IC	S	APMX	BS	RE	BSR
09	18.5	6.35-7.4	5.0	1.0	1.0	-
09-W	18.5	6.35	1.0	7.1	-	250

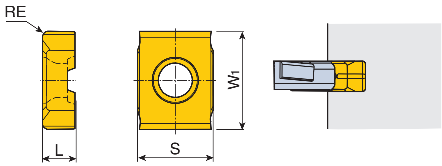


Insert	Designation	Recommended machining conditions ap (mm)	Recommended machining conditions Feed (mm/tooth)	Ceramic AS10	Ceramic	Coated TT9080	Coated TT8080	Coated TT8525B	Coated TT7080	Coated TT7515	Coated TT6080	Coated TT2510	Coated	Uncoated K10	Uncoated	Uncoated
	**XNMU 0906 ANTR-M**	1.5-4.0	0.20-0.10			●	●	●	●	●	●	●				
	**XNMU 0906 ANTN-ML**	1.5-4.0	0.25-0.13			●	●	●	●			●				
	XNHU 0906 ANTN-ML	1.5-4.0	0.25-0.13			●					●					
	**XNHU 0906 ANTN-MM**	1.5-4.0	0.25-0.13			●		●		●	●	●				
	**XNHU 0906 ANTN-CE**	1.5-4.0	0.25-0.135	●												
	**XNHU 0906 ANTN-W**	0.1-1.0	0.20-0.10								●					

●: Standard items

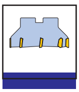

E78-E80

Inserts



Size	Dimension (mm)					
	W1	S	L	RE		
018	10	7.5	1.8	0.2-0.8		
023	10	7.5	2.3	0.2-0.8		
028	10	7.5	2.8	0.2-0.8		
033	10	7.5	3.3	0.2-0.8		
038	13	10	3.8	0.4-0.8		
043	13	10	4.3	0.4-0.8		
048	13	10	4.8	0.4-0.8		
053	13	10	5.3	0.4-0.8		

Insert	Designation		Recommended machining conditions		Coated										Uncoated		
			ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080			K10		
	**ZNHT**	**018-04**	-	0.08-0.05	●		●		●	●		●					
		018-08	-	0.08-0.05	●		●										
		023-04	-	0.08-0.05	●		●		●	●		●					
		023-08	-	0.08-0.05	●		●										
		028-04	-	0.10-0.15	●		●		●	●		●					
		028-08	-	0.10-0.15	●		●										
		033-04	-	0.12-0.05	●		●		●	●		●					
		033-08	-	0.12-0.05	●		●		●								
		038-04	-	0.12-0.05	●		●		●			●					
		038-08	-	0.12-0.05	●		●		●	●		●					
		043-04	-	0.15-0.05	●		●		●			●					
		043-08	-	0.15-0.05	●		●		●	●		●					
		048-04	-	0.15-0.05	●		●		●			●					
		048-08	-	0.15-0.05	●		●		●	●		●					
		053-04	-	0.15-0.05	●		●		●			●					
		053-08	-	0.15-0.05	●		●		●	●		●					
	**ZNHT**	**018-04-ML**	-	0.08-0.05			●					●					
		023-04-ML	-	0.08-0.05			●					●					
		028-04-ML	-	0.08-0.05			●					●					
		033-04-ML	-	0.12-0.05			●					●					
		038-04-ML	-	0.12-0.05			●					●					
		043-04-ML	-	0.12-0.05			●					●					
		048-04-ML	-	0.12-0.05			●					●					
		053-04-ML	-	0.12-0.05			●					●					
	**ZNHT**	**018-02-AL**	-	0.35-0.10											●		
		023-02-AL	-	0.35-0.10											●		
		028-02-AL	-	0.35-0.10											●		
		033-02-AL	-	0.35-0.10											●		
		038-04-AL	-	0.35-0.10											●		
		043-04-AL	-	0.35-0.10											●		
		048-04-AL	-	0.35-0.10											●		
		053-04-AL	-	0.35-0.10											●		
		053-08-AL	-	0.35-0.10											●		

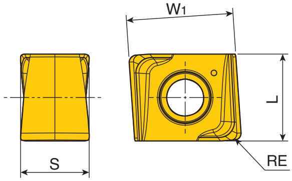


E204-E205,
E210

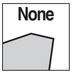
● : Standard items

ZNHU

Inserts



Size	Dimension (mm)					
	L	W1	S	RE		
080	7.6	10.7	6.36-6.49	0.8		
110	10.6	13.0	8.38-8.42	0.8		
140	14	13.0	9.59-9.65	0.8		



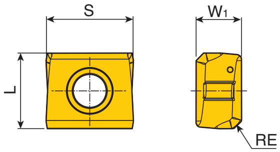
Insert	Designation	Recommended machining conditions		Coated									Uncoated		
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080		K10		
	**ZNHU 080-08**	-	0.16-0.08	●		●		●	●	●	●				
	110-08	-	0.20-0.10	●		●		●	●	●	●				
	140-08	-	0.21-0.11	●		●		●	●	●	●				
	**ZNHU 080-08-ML**	-	0.010-0.05	●		●					●				
	110-08-ML	-	0.12-0.06	●		●					●				
	140-08-ML	-	0.12-0.06	●		●					●				

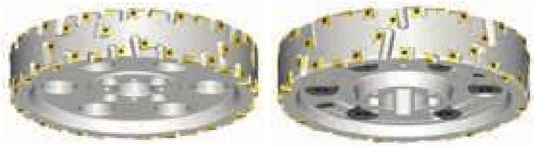
E206-E209,
E211-E214

● : Standard items

Tailor-made Insert

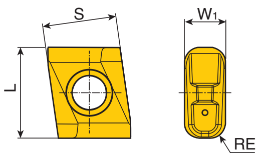
Tangential inserts





TTRC
(Slotting cutter)

Insert	Designation	Dimension (mm)					
		L	S	W_1	RE		
	**LNC 1060-C**	10.0	11.5	6.0	chamfer		
	**LNC 137020-L**	13.6	11.6	6.7	2.0		
	**LNCX 136508 PNR-ML**	13.0	10.6	6.5	0.8		

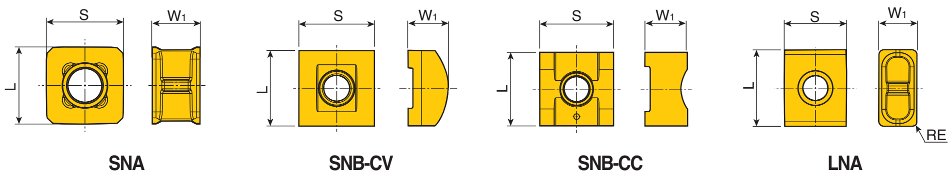


TPINM
(Internal cutter)

Insert	Designation	Dimension (mm)					
		L	S	W_1	RE		
	**PMIN 120905-M**	12.0	9.7	5.4	2.0		
	PMIN 130907-M	13.5	9.7	7.0	2.0		
	PMIN 150907-M	15.0	9.9	7.0	2.0		
	PMIN 180907-M	18.0	9.7	7.0	2.0		

Tailor-made Insert

Tangential inserts



Insert	Designation	Dimension (mm)					
		L	S	W1	RE		
	**SNA 1065-M**	10.5	10.5	6.5	-		
	SNA 1370-M	13.0	13.0	7.0	-		
	SNA 1680-M	16.0	16.0	8.0	-		
	**SNB 1375-CV**	13.0	13.0	7.5	-		
	SNB 1685-CV	16.0	16.0	8.5	-		
	**SNB 1375-CC**	13.0	13.0	7.5	-		
	SNB 1685-CC	16.0	16.0	8.5	-		
	**LNA 137008-M**	13.5	10.0	6.7	0.8		
	LNA 168008-M	16.5	14.0	8.0	0.8		

- CV: Convex, CC: Concave
- Various corner radii are available for SNB insert

TRMT
(Form profile cutter)

Recommended Cutting Conditions

Machining data for MAXI-SLOT

ISO	Material		Hardness HB	Vc(m/min)	Feed (mm/tooth)		
	Material	AISI/SAE/ASTM			TR13	TR15	TR17
P	Non-alloy steel	1020	130-180	120-200	0.04-0.12	0.05-0.15	0.06-0.15
	Low alloy steel	4030	260-300	200-300	0.04-0.12	0.05-0.15	0.06-0.15
	Low alloy steel	3135	HRC 35-40	80-120	0.02-0.06	0.03-0.12	0.04-0.12
	High alloy steel	H13	200-220	100-150	0.03-0.07	0.04-0.12	0.04-0.12
M	Martensitic stainless steel	420	200	100-150	0.02-0.06	0.04-0.12	0.04-0.12
	Austenitic stainless steel	304L	200	80-120	0.02-0.06	0.03-0.10	0.03-0.12
K	Gray cast iron	Class 40	250	150-200	0.04-0.12	0.05-0.20	0.05-0.20
	Malleable cast iron	Class 65 45 12	200	130-180	0.04-0.10	0.05-0.18	0.05-0.18
S	High temp. alloys	Inconel 718	HRC 36-40	20-30	0.015-0.10	0.02-0.12	0.02-0.12
		AMS R56400	HRC40-45	30-40	0.015-0.06	0.02-0.12	0.02-0.12

• For more information of material groups, see the materials & grades "material conversion table".

Steel Stainless steel Cast iron Nonferrous High temp. alloys Hardened steel

Machining data for CBN grade

ISO	Material	D.O.C. (mm)	Grade		
			TB7015		
			Cutting speed Vc(m/min)	Feed (mm/tooth)	Cutting edge
P	Bearing steel	< 2	180 - 220	0.05 - 0.25	Chamfer
	Ferrous powder metal	< 2	150 - 300	0.1 - 0.15	Chamfer
K	Grey cast iron HB 200 - 280	< 0.5	500 - 1500	0.1 - 0.3	Chamfer hone
		0.5 - 2.0	500 - 1100	0.1 - 0.25	Chamfer
	Compated graphite iron (CGI)	< 0.5	400 - 600	0.1 - 0.2	Hone
S	Co based > 35 HRC	0.5 - 2.0	150 - 200	0.05 - 0.15	Chamfer
	Ni based > 35 HRC		120 - 150	0.05 - 0.15	Chamfer
	Fe based > 35 HRC		60 - 120	0.05 - 0.15	Chamfer
	Cr based > 35 HRC		50 - 75	0.05 - 0.15	Chamfer
H	Hardened steels > 45 HRC	< 0.5	80 - 180	0.1 - 0.25	Chamfer
	Hardened cast iron	< 2	80 - 200	0.1 - 0.15	Chamfer

• For more information of material groups, see the materials & grades "material conversion table".

Steel Stainless steel Cast iron Nonferrous High temp. alloys Hardened steel

Recommended Cutting Conditions

Machining data

Cutting Speed :Vc(m/min)

ISO	Material		Condition	Tensile strength (N/mm²)	Hardness HB	Material No.	Uncoated	
							K10	P30
P	Non-alloy steel, cast steel, free cutting steel	< 0.25%C	Annealed	420	125	1		60-170
		>= 0.25%C	Annealed	650	190	2		60-130
		< 0.55%C	Quenched and tempered	850	250	3		60-100
		>= 0.55%C	Annealed	750	220	4		60-120
			Quenched and tempered	1000	300	5		50-100
	Low alloy steel and cast steel (less than 5% of alloying elements)		Annealed	600	200	6		60-130
			Quenched and tempered	930	275	7		60-100
				1000	300	8		50-100
				1200	350	9		40-90
	High alloy steel, cast steel and tool steel		Annealed	680	200	10		60-130
			Quenched and tempered	1100	325	11		50-100
M	Stainless steel and cast steel		Ferritic / martensitic	680	200	12		
			Martensitic	820	240	13		
			Austenitic	600	180	14		
K	Gray cast iron (GG)		Ferritic		160	15	70-130	
			Pearlitic		250	16	50-110	
	Cast iron nodular (GGG)		Ferritic		180	17	45-90	
			Pearlitic		260	18	40-85	
	Malleable cast iron		Ferritic		130	19	70-140	
			Pearlitic		230	20	55-115	
N	Aluminum - wrought alloy		Not cureable		60	21	550-700	
			Cured		100	22	600-750	
	Aluminum-cast, alloyed	<=12% Si	Not cureable		75	23	800-900	
			Cured		90	24	650-800	
		>12% Si	High temp.		130	25	250-320	
	Copper alloys	>1% Pb	Free cutting		110	26	300-400	
			Brass		90	27	300-400	
			Electrolytic copper		100	28	210-280	
	Non-metallic		Duroplastics, fiber plastics			29		
			Hard rubber			30		
S	High temp. alloys	Fe based	Annealed		200	31	50-70	
			Cured		280	32	40-50	
		Ni or Co based	Annealed		250	33	50-70	
			Cured		350	34	35-40	
			Cast		320	35	45-50	
	Titanium, Ti alloys			Rm 400		36	120-145	
			Alpha+beta alloys cured	Rm 1050		37	35-45	
H	Hardened steel		Hardened		55HRC	38		
			Hardened		60HRC	39		
	Chilled cast iron		Cast		400	40		
	Cast iron nodular		Hardened		55HRC	41		

• For more information of material groups, see the materials & grades "material conversion table"

Steel | Stainless steel | Cast iron | Nonferrous | High temp. alloys | Hardened steel

Recommended Cutting Conditions

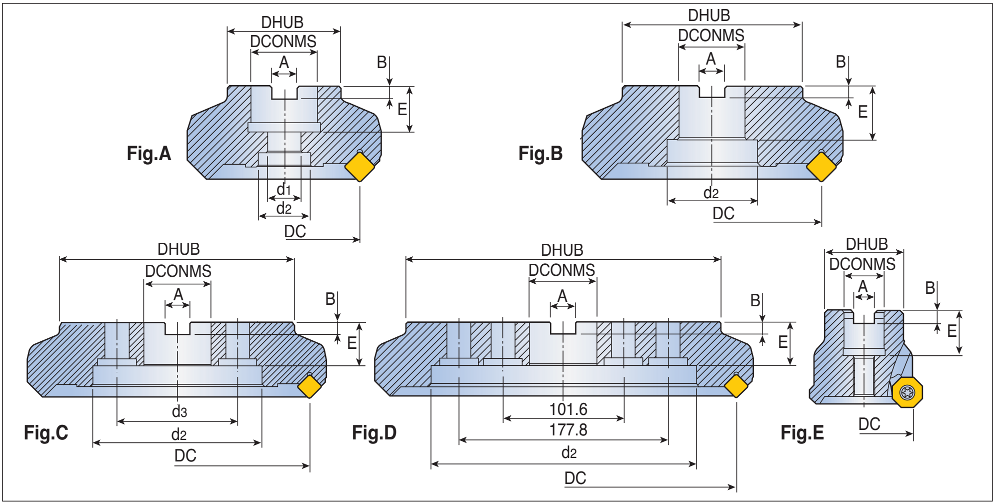
Machining data

Cutting speed :Vc(m/min)

Coated									Ceramic				Cermet
TT9080	TT9030	TT7080	TT8525B	TT8080	TT8020	TT6080	TT7515	TT2510	AS10	AS20	TC3020	TC3030	CT7000
220-370	190-310	250-410	160-270	170-250	150-210								270-510
180-310	160-260	200-380	140-210	130-220	120-200								230-450
115-195	105-185	140-230	90-160	90-170	70-140								150-370
130-210	120-200	160-250	100-170	100-190	90-150								210-430
115-175	95-160	135-195	80-140	70-160	60-130								150-280
175-265	160-250	190-290	140-200	150-220	130-170								150-285
130-215	120-200	150-240	90-160	110-190	70-150								100-190
105-185	95-175	135-225	70-150	80-160	60-110								90-170
95-160	80-150	120-190	60-110	70-120	50-100								80-130
85-155	75-135	100-150	60-90	70-110	50-80								100-170
75-135	65-120	90-140	50-90	60-100	40-80								80-120
115-270	100-250			90-200	75-170								
100-230	80-200			70-160	60-130								
120-275	110-260			100-210	80-180								
						180-350	200-390	250-430	400-900				
						140-280	160-300	190-270	250-600				
						115-230	130-250		350-800				
						100-200	110-210		250-600				
						190-310	210-330		360-540				
						120-260	130-280		300-440				
													800-1200
													700-1100
													800-1200
													650-850
													250-400
													500-600
													500-600
													350-400
40-80				30-65						500-900			
30-60				20-45						500-900			
35-70				25-50						500-900	700-1200	700-1200	
30-60				20-40						500-900	700-1200	700-1200	
35-65				20-45						500-900	700-1200	700-1200	
90-130				60-100						500-900			
35-70				25-55						500-900			
40-75								70-180					
30-55								50-130					

Mounting Reference

Arbor style



Dimension (mm)										Fig.	Arbor
DC	DCONMS	A	B	E	DHUB		d_1	d_2	d_3		
					For mold & die	For general					
32	16	8.4	5.6	20	30	-	-	-	-	E	SEM16
32	16	8.4	5.6	20	30	-	9	13.5	-	A	SEM16
40	16	8.4	5.6	20	38	-	9	13.5	-	A	SEM16
40	22	10.4	6.3	22	38	-	11	17	-	A	SEM22
50	22	10.4	6.3	22	40	45	11	17	-	A	SEM22
63	22	10.4	6.3	22	47	-	11	17	-	A	SEM22
80	25.4	9.526	6	26	-	70	13	20	-	A	FMA25.4
80	27	12.4	7	28	58	70	13	22	-	A	SEM27
100	31.75	12.7	8	32	-	80	18	26	-	A	FMA31.75
100	31.75	12.7	8	32	-	80	-	46	-	B	FMA31.75
100	32	14.4	8	26	66	85	18	26	-	A	SEM32
100	32	14.4	8	26	66	85	-	46	-	B	SEM32
125	38.1	15.875	10	38	80	-	-	56	-	B	FMA38.1
125	40	16.4	9	32	85	-	22	32	-	A	SEM40
125	40	16.4	9	32	85	-	-	56	-	B	SEM40
160	40	16.4	9	32	110	-	-	90	66.7	C	FM40
160	50.8	19.05	11	38	100	-	-	72	-	B	FMA50.8
200	47.625	25.4	14	38	130	-	-	132	101.6	C	FMA47.625
200	60	25.7	14	40	130	-	-	132	101.6	C	FM60
250	47.625	25.4	14	38	160	-	-	150	101.6	C	FMA47.625
250	60	25.7	14	40	160	-	-	150	101.6	C	FM60
315	47.625	25.4	14	38	220	-	-	224	-	D	-
315	60	25.7	14	40	220	-	-	220	-	D	-

• For Face Mill arbors, please refer to TaeguTec tooling system(part G)

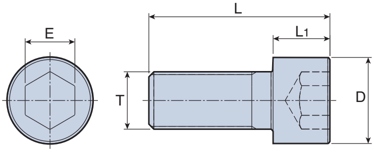
Mounting Reference

Mounting bolt

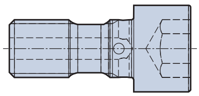
SH type

Designation	Dimension (mm)					Cutter size
	D	L	L_1	T	E	
SH M8x1.25x25(-C)	13	33	8	8	6	32,40
SH M8x1.25x30(-C)	13	38	8	8	6	32,40
SH M8x1.25x35(-C)	13	43	8	8	6	32,40
SH M10x1.5x25(-C)	16	35	10	10	8	50, 63
SH M10x1.5x30(-C)	16	40	10	10	8	50, 63
SH M10x1.5x40(-C)	16	50	10	10	8	50, 63
SH M12x1.75x30(-C)	18	42	12	12	10	80
SH M12x1.75x35(-C)	18	47	12	12	10	80
SH M16x2x30(-C)	24	46	16	16	14	100
SH M16x2x35(-C)	24	51	16	16	14	100
SH M20x2.5x40(-C)	30	60	20	20	17	125

• "-C": Bolt with hole for internal coolant



SH

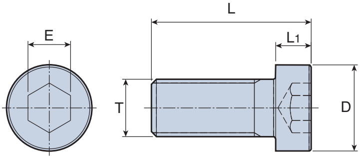


SH-C

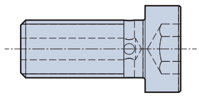
LH type

Description	Dimension (mm)					Cutter size
	D	L	L_1	T	E	
LH M10x1.5x25(-C)	16	31.5	6.5	10	8	50, 63
LH M10x1.5x35(-C)	16	41.5	6.5	10	8	50, 63
LH M12x1.75x30(-C)	18	36.9	6.9	12	8	80
LH M16x2x35(-C)	24	45	10	16	12	100

• "-C": Bolt with hole for internal coolant



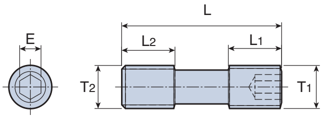
LH



LH-C

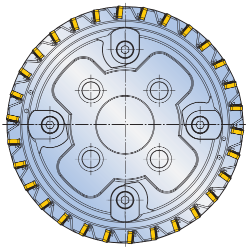
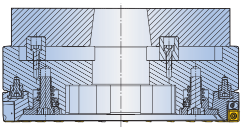
KTB, TCS type

Description	Dimension (mm)					
	L	L_1	L_2	T_1	T_2	E
KTB 32B	30	10	10	M8X1.0	M8X1.25	4
TCS10-40	40	10	15	M10X1.25	M10X1.5	5



KTB, TSC

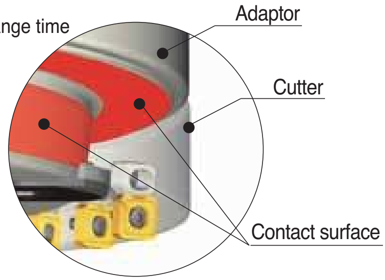
New quick change cutter multi-bolt type

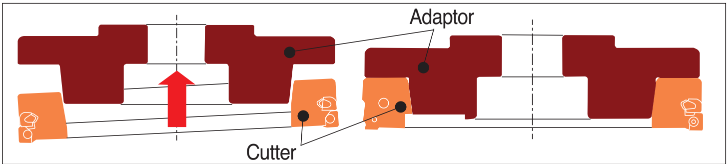
- Light weight cutter
  Reduced cutter weight almost half of conventional one achieves easy handling & improved safety

- Quick and easy system
  Quick and easy system with optimized design for reducing tool change time

- Double face contact
  Excellent repeatability and accuracy
  High stiffness



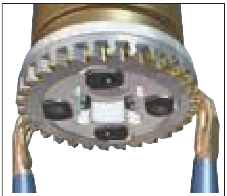
- Easy mounting by taper fitting



Setting procedure

- Easy mounting and self positioning by taper fitting

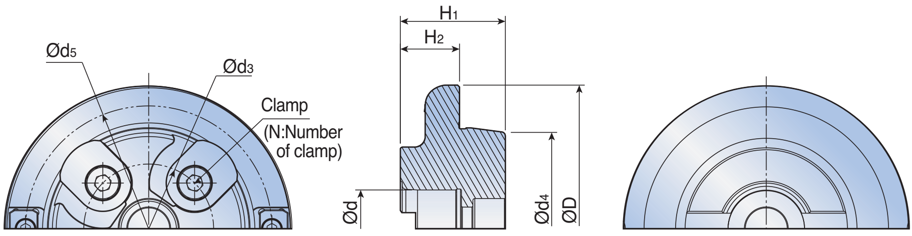

❶Combine the adapter and spindle using 4 screws


❷Assemble the cutter and adapter chucking position of key and key way


❸Rotate the cutter following "Lock" direction

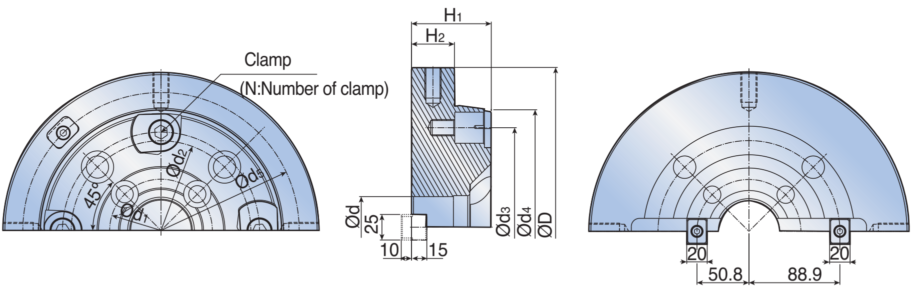

❹Lock the clamping screws as much as about 100º

▶ New quick change cutter-basic arbor type



Designation	Dimension (mm)										Weight (kg)
	D	d	d1	d2	d3	d4	d5	N	H1	H2	
TQCA D160-FM40	150	40	-	-	68	100.37	129	4	55	31	3.9
TQCA D200-FM60	190	60	-	-	108	140.37	169	4	55	31	5.8
TQCA D250-FM60	240	60	-	-	158	190.37	219	4	55	31	10.4

▶ New quick change cutter-spindle mounting type



Designation	Dimension (mm)										Weight (kg)
	D	d	d1	d2	d3	d4	d5	N	H1	H2	
TQCA D250	248	60	101.6	-	158	190.37	219	4	72	42	17.9
TQCA D315	313	60	101.6	177.8	195	230.33	273.5	4	77	42	29.8
TQCA D355	353	60	101.6	177.8	235	270.33	313.5	8	77	42	38.3
TQCA D400	398	60	101.6	177.8	280	315.33	358.5	8	77	42	49.6

▶ Quick change cutter adapter

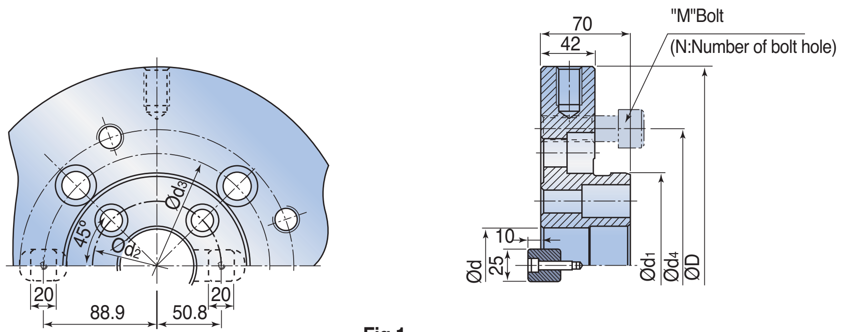


Fig.1

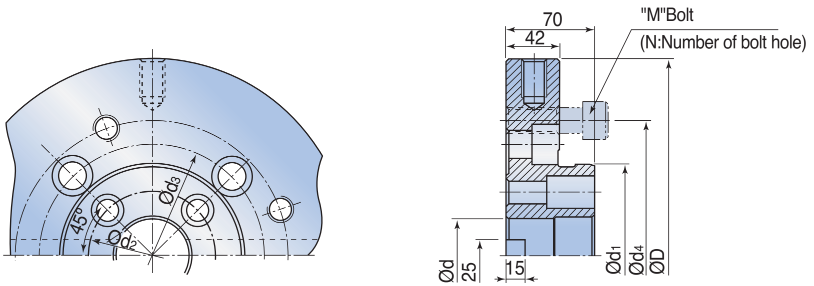


Fig.2

Designation	Dimension (mm)								Weight (Kg)
	D	d	d_1	d_2	d_3	d_4	M	N	
QA 08 K/M	198	47.625	63.5	101.6	-	114.3	M16x40	4	10
QA 10 K/M	248	60	133.35	101.6	-	177.8	M16x50	4	15
QA 12 K/M	313	60	146.05	101.6	177.8	215.9	M20x50	4	19.7
QA 14 K/M	353	60	215.9	101.6	177.8	260.4	M20x50	6	24
QA 16 K/M	398	60	254.0	101.6	177.8	304.8	M20x50	6	29

• K: Adapter with setting key (Fig.1)
M: Adapter without setting key (Fig.2)

▶ How to use splitter

- 3 splitting grooves on one cutting edge and 2 splitting grooves on the opposite side

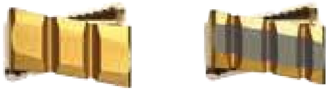
APKT ANHX

- Full proof configuration-inserts have metal color appearance only on the 3 groove side for simplified mounting

APKT

Side A Side B

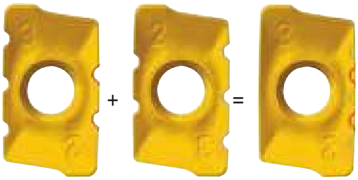
ANHX



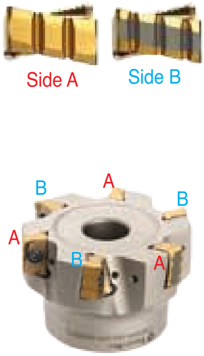
Side A Side B

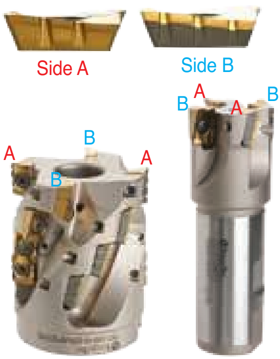
Notice: When insert mounting, ensure they are mounted in a staggered formation
i.e. 1st tooth-2 groove side; 2nd tooth-3 groove side and repeat action for the remaining teeth

- Both cutting edges split chip to small pieces for cutting load reduction and create complete cutting edge when combined.



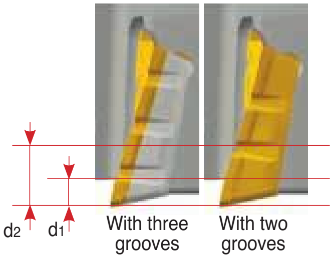
- For optimum machining efficiency, use even numbered flute type cutters



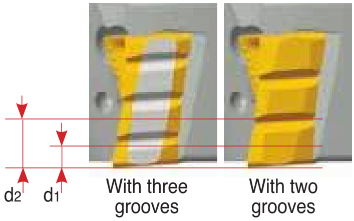


Also applicable to odd numbered flute type cutters

■ The splitter inserts effective in axial depth of cuts ≥ d_1



Depth of cut	APKT 17	APKT 12
d_1	3mm	2.4mm
d_2	6.5mm	5.2mm



Depth of cut	ANHX 16
d_1	2.5mm
d_2	6mm

Setting instructions

Height gauge

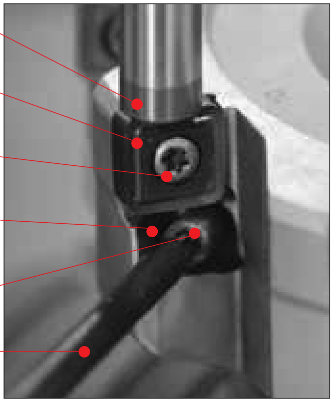
Insert

Insert screw

Adjust wedge

Wedge screw

T-Wrench



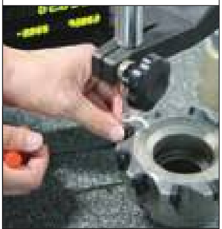
❶ Move the adjust wedge to its bottom-most position by rotating the wedge screw clockwise.

※Please avoid using too much force.

❷ Mount new cutting edge of insert. Make sure that the insert pocket is thoroughly cleaned before mounting insert.

※Please fix the insert screw completely as readjustment is not expected once it is done.

❸ Measure the Runout of the cutter when all inserts are mounted and select the highest insert as a reference.



※Please ensure that insert edge does not get damaged during setting.
Use optimum dial pressure only.

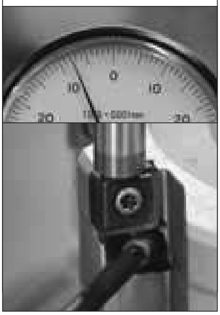
❹ Set the height of cutter, raising the reference insert by turning the wedge screw counter clockwise.

※Increase height by 0.01mm at least from the highest insert.

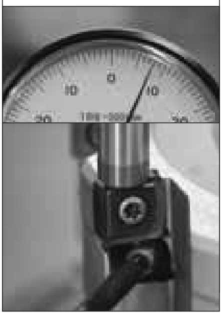
❺-1 Adjust axial Runout of the remaining inserts with the same process as used with the reference insert.

※Please note that max adjustment height should not exceed 0.1mm(.004")

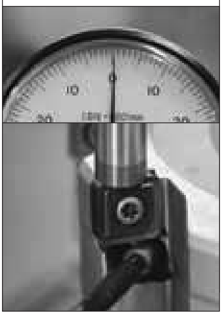
❺-2 Adjust Runout in the range of 0.005mm rotating the wrench gradually.



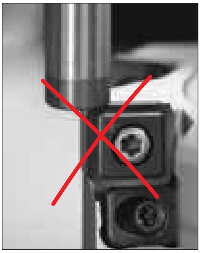
❺-3 If it is beyond the acceptable range, please reset it with the orderof ❶-❷-❺

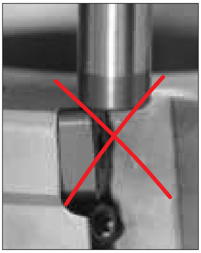


❻ Runout adjustment is completed.(you don't have to clamp the insert screw anymore once it is fixed.)



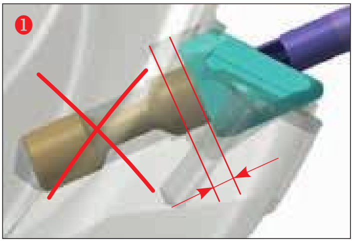
Gauge user guide



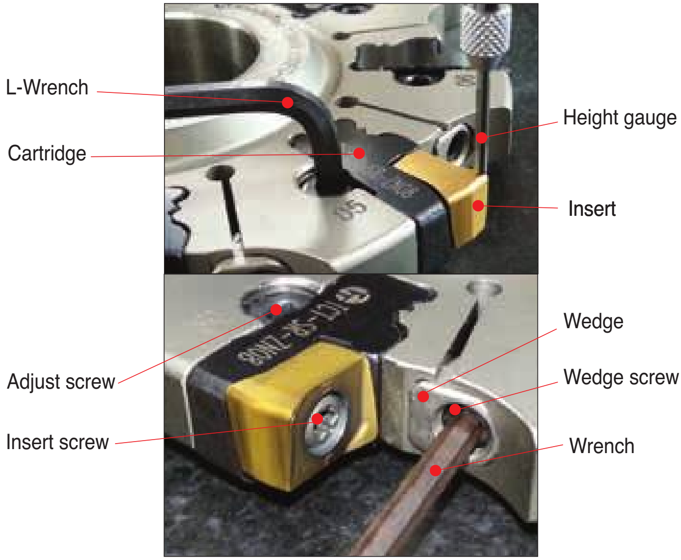


Special precautions

- While loading a new insert corner, ensure that the adjust wedge is in the bottom-most position
  Bottom out the adjust wedge completely before unclamping the insert from cutter
- Clean the insert and pocket thoroughly before mounting fresh insert /corner
- While assembling adjust wedge onto cutter body, please ensure that the adjust wedge is tightened
  until it reaches the bottom

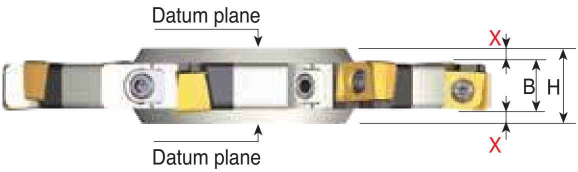


TOPSLOT component names



TOPSLOT setup instructions

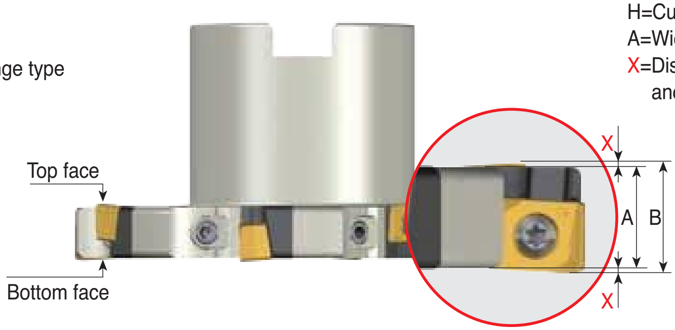
- Disk type



X=(H-B)/2

B=Cutting width (Target width)
H=Cutter height (Datum)
A=Width of cutter body
X=Distance between insert and cutter body

- Flange type



X=(B-A)/2

Setting procedure

■ Disk type

❶ Index unused inserts firmly onto the cartridge.

❷ Unfasten the wedge screw 1 turn counter-clockwise.

❸ After fastening the wedge around 80%, adjust the cartridge to the desired "X" value after setting the datum zero point.

❹ Follow the same method about other cartridges. (the same as opposite side)

❺ After setting all cartridges, sequentially fasten the wedge 100% over two or three times.

- When adjusting cartridge to the "X" value, set the location of cartridge higher than "X" value and then adjust the cartridge to the "X" value.
- Clockwise rotation : cartridge descends.
- Counter-clockwise rotation : cartridge ascends.

■ Flange type

❶ For setting of bottom face, repeat disk type steps 1-4. (The datum is bottom plane of flange type cutter.)

❷ For top face set-up, the use of setting plate is mandatory and the height gauge must be reset to '0' for each insert.

❸ Put the cutter bottom face on the setting plate and unfasten wedge screw 1 turn counter-clockwise

❹ After fastening the wedge around 80%, adjust the cartridge to the desired (A+X) value.

❺ Follow the same method about other cartridges.

❻ After setting all cartridges, sequentially fasten the wedge 100% over two or three times.

- When adjusting cartridge to the "X" value, set the location of cartridge higher than "X" value and then adjust the cartridge to the "X" value.
- Clockwise rotation: cartridge descends.
- Counter-clockwise rotation: cartridge ascends.

Setting notice

■ Important set-up points

- All adjustments must be done on a plane, flat surface.
- For improved accuracy, remove any foreign substances from the insert and insert pocket surfaces before clamping.
- During reassembly wedges and wedge screws, you must apply lubricant of the friction surface. (Fig.1)
- "X" value must be equal for both top and bottom faces when adjusting the width of slot. (Fig.2)
- Width of cut must be adjusted within the range of the laser marked on the cutter. (Fig.3)
  Ex) WIDTH 12-13 / WIDTH 20-23
- When adjusting cartridge to the "X" value, set the location of cartridge higher than "X" value and then adjust the cartridge to the "X" value.

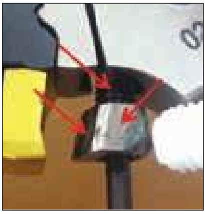


Fig.1 Lubricant

Fig.2 "X" setting

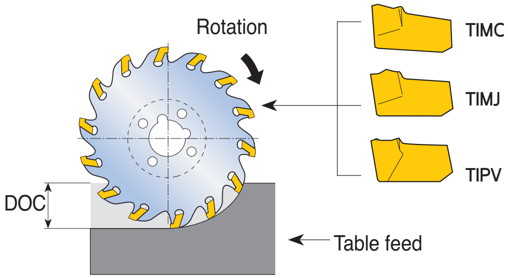
Fig.3 WIDTH

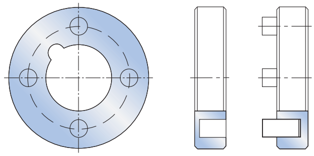
Narrow width slotting cutters

- Metric cutting diameters:
  75mm, 100mm, 125mm, 160mm, 250mm
- Cutting width ranges: 1.6mm - 6.35mm
- Geometry: Positive Rake
- Applications: Slotting and sawing
- Materials: Carbon steels, alloy steels, stainless steels, cast iron,
  aluminum and exotics

■ Features / Benefits of slotting cutters
- Narrow width applications to 1.6mm
- Simple easy-to-mount inserts
- Secure insert retention self-positioning insert stopper for repeatability
- Drive flange mounting for extra stability
- Minimal radial runout
- Efficient chip evacuation
- Reduced cutting forces
- Improved tool life
- Economical

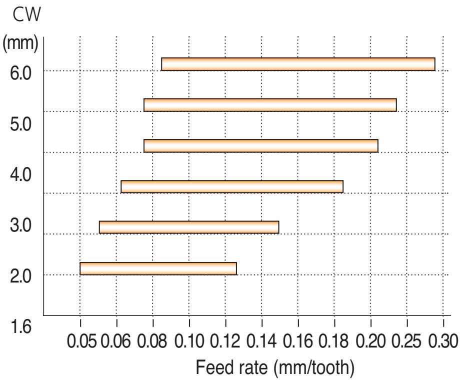
Recommended feed rates for - TSC slotting cutters

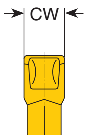




Drive flange set recommended for style 2 cutters

▶ Recommended feed rates (Based on insert width)





Feed rates are for radial
D.O.C. =>1/4 the cutter diameter
For radial DOC <1/4 the cutter diameter
increase feed rates by the following %

DOC/Cutter diameter	1/4	1/6	1/8	1/10	1/20
Increase feed rate by ->	0%	15%	30%	45%	45%

- Cutter entry

Climb milling enters the workpiece with a thick chip and exits with a thin chip. Honed inserts are recommended.
Conventional milling enters the workpiece with a thin chip and exits with a thick chip.
Sharp inserts are recommended. Climb milling should be used whenever possible, especially when replacing high speed steel slotting cutters. On machines with backlash eliminators, climb milling is preferred.

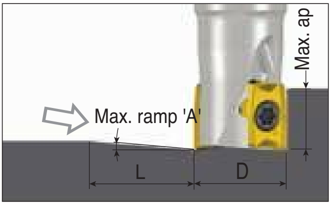
- Cutter mounting

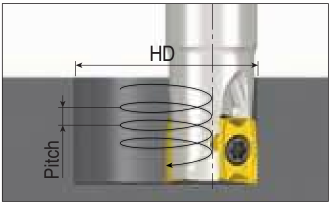
The use of drive flange sets are recommended to prevent denting of arbor drive keys and to provide added stability during increased metal removal rates.

- Insert mounting

Manually place insert in pocket and seat in place by using a wooden or plastic hammer.
This will ensure self positioning for insert repeatability and minimal radial runout.
Pockets must be clean and free of debris prior to installation.

Straight ramping	Helical ramping



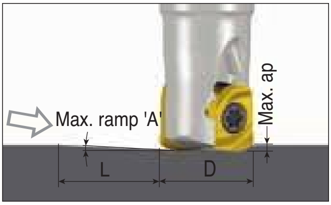


CVK(H)T 05: R0.2

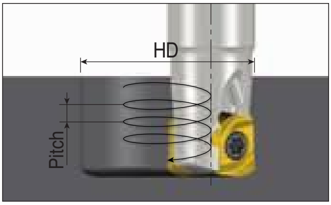
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø6	2.5	5.0	112	6.5		0.1
					12	0.7
Ø8	2.1	5.0	136	10.5		0.2
					16	0.8
Ø9	1.7	5.0	164	12.5		0.3
					18	0.7
Ø10	1.7	5.0	169	14.5		0.4
					20	0.8
Ø11	1.3	5.0	212	16.5		0.3
					22	0.7
Ø12	1.3	5.0	220	18.5		0.4
					24	0.7
Ø13	1.1	5.0	249	20.5		0.4
					26	0.7
Ø14	1.0	5.0	273	22.5		0.4
					28	0.7

Straight ramping



Helical ramping

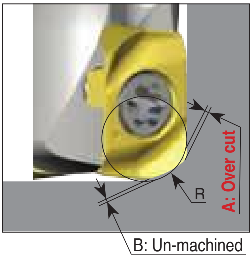


CVKT 05-HF

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø6	0.20	0.5	143	6.5		0.0
					12	0.1
Ø8	0.45	0.5	64	10.5		0.1
					16	0.2
Ø9	0.55	0.5	52	12.5		0.1
					18	0.2
Ø10	0.30	0.5	96	14.5		0.1
					20	0.1
Ø11	0.35	0.5	82	16.5		0.1
					22	0.2
Ø12	0.70	0.5	41	18.5		0.2
					24	0.4
Ø13	0.75	0.5	38	20.5		0.3
					26	0.5
Ø14	0.85	0.5	34	22.5		0.3
					28	0.5

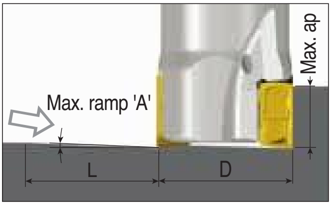
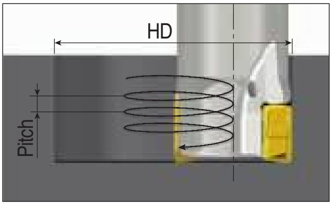
Programming technical data



	R Program	A Over cut	B Un-machined
CVKT 05-HF	0.8	0	0.21
	0.9	0	0.18
	1.0	0.02	0.14

: Recommended program 'R'

Ramping Data

Straight ramping	Helical ramping
	

LPK(H)U 05

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø10	1.8	4.6	142	16.8		0.6
					20	0.9
Ø11	1.6	4.6	160	18.8		0.6
					22	0.8
Ø12	1.5	4.6	176	20.8		0.6
					24	0.8
Ø13	1.3	4.6	195	22.8		0.6
					26	0.8
Ø16	1.0	4.6	251	28.8		0.6
					32	0.8
Ø20	0.8	4.6	330	36.8		0.6
					40	0.7
Ø25	0.6	4.6	439	46.8		0.6
					50	0.7
Ø32	0.4	4.6	586	60.8		0.6
					64	0.7

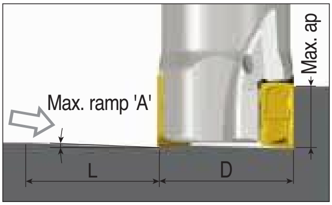
LPK(H)U 09

(unit: mm)

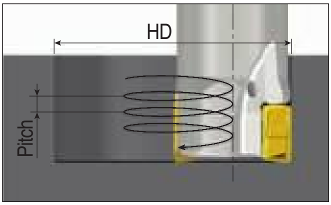
Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø20	1.4	8.3	328	33		1.0
					40	1.5
Ø25	1.1	8.3	432	43		1.0
					50	1.5
Ø32	0.8	8.3	594	57		1.1
					64	1.4
Ø40	0.6	8.3	793	73		1.0
					80	1.3
Ø50	0.4	8.3	1057	93		1.0
					100	1.2
Ø63	0.3	8.3	1359	119		1.0
					126	1.2

Ramping Data

Straight ramping



Helical ramping

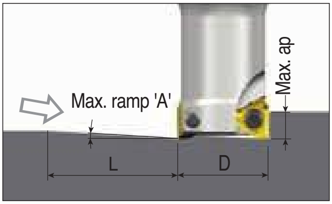


LPKU 14

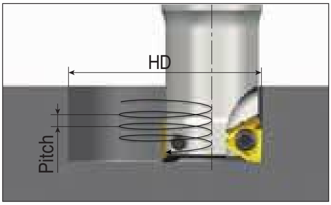
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø40	0.9	12.5	754	69		1.5
					80	2.0
Ø50	0.7	12.5	1023	89		1.5
					100	1.9
Ø63	0.5	12.5	1302	115		1.5
					126	1.9
Ø80	0.4	12.5	1790	149		1.5
					160	1.7
Ø100	0.3	12.5	2387	189		1.4
					200	1.6
Ø125	0.2	12.5	2865	239		1.5
					250	1.7
Ø160	0.2	12.5	3581	309		1.6
					320	1.7
Ø200	0.1	12.5	4775	389		1.5
					400	1.6

Straight ramping



Helical ramping



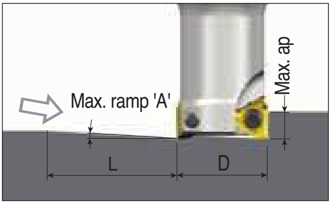
3PKT 04

(unit: mm)

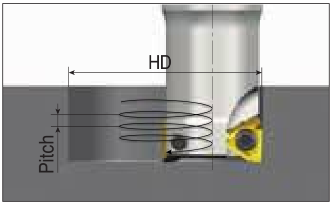
Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø8	2.1	3.5	95	13.2		0.6
					16	0.9
Ø10	2.2	3.5	91	17.2		0.8
					20	1.2
Ø11	3.6	3.5	56	19.2		1.6
					22	2.1
Ø12	3.3	3.5	61	21.2		1.6
					24	2.1
Ø13	2.5	3.5	80	23.2		1.4
					26	1.7
Ø14	2.2	3.5	91	25.2		1.3
					28	1.6
Ø16	1.6	3.5	125	29.2		1.1
					32	1.4

Ramping Data

Straight ramping



Helical ramping



3PK(H)T 06

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø12	3.7	4.7	73	19.5		1.3
					24	2.1
Ø14	2.8	4.7	96	23.5		1.2
					28	1.8
Ø16	2.3	4.7	117	27.5		1.2
					32	1.7
Ø17	2.0	4.7	135	29.5		1.2
					34	1.6
Ø18	2.0	4.7	135	31.5		1.3
					36	1.7
Ø20	1.6	4.7	168	35.5		1.2
					40	1.5
Ø21	1.5	4.7	180	37.5		1.2
					42	1.5
Ø22	1.5	4.7	180	39.5		1.2
					44	1.5
Ø25	1.5	4.7	180	45.5		1.4
					50	1.7
Ø30	1.2	4.7	224	55.5		1.4
					60	1.7
Ø32	1.2	4.7	224	59.5		1.5
					64	1.8
Ø35	1.0	4.7	269	65.5		1.4
					70	1.6
Ø40	0.7	4.7	385	75.5		1.2
					80	1.3

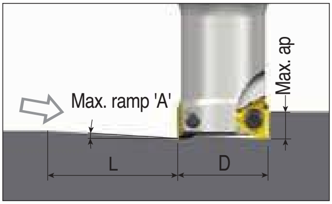
3PK(H)T 10

(unit: mm)

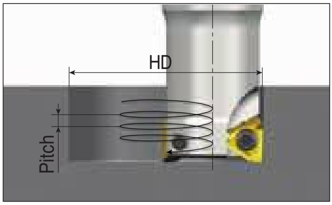
Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø16	7.0	7.0	57	24.7		2.8
					32	5.2
Ø20	3.3	7.0	121	33.9		2.1
					40	3.1
Ø21	3.2	7.0	125	35.9		2.2
					42	3.1
Ø22	3.2	7.0	125	37.9		2.4
					44	3.3
Ø25	2.8	7.0	143	43.5		2.4
					50	3.3
Ø26	2.6	7.0	154	45.9		2.4
					52	3.1
Ø30	2.0	7.0	201	53.9		2.2
					60	2.8
Ø32	1.8	7.0	223	57.5		2.1
					64	2.7
Ø33	1.7	7.0	236	59.9		2.1
					66	2.6
Ø40	1.3	7.0	309	73.7		2.0
					80	2.4
Ø50	1.0	7.0	401	93.7		2.0
					100	2.3
Ø63	0.8	7.0	502	119.7		2.1
					126	2.3

Ramping Data

Straight ramping



Helical ramping



3PK(H)T 15

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø32	3.2	11.0	197	53.5		3.2
					64	4.8
Ø33	3.1	11.0	203	55.5		3.3
					66	4.8
Ø35	3.1	11.0	203	59.5		3.5
					70	5.1
Ø40	2.0	11.0	315	70.1		2.8
					80	3.7
Ø50	1.5	11.0	420	90.1		2.8
					100	3.5
Ø63	1.1	11.0	573	116.1		2.7
					126	3.2
Ø80	0.8	11.0	788	150.3		2.6
					160	3.0
Ø100	0.6	11.0	1051	190.5		2.5
					200	2.8
Ø125	0.5	11.0	1261	240.3		2.7
					250	2.9
Ø160	0.3	11.0	2102	310.3		2.1
					320	2.2
Ø200	0.2	11.0	3153	390.3		1.8
					400	1.9

3PK(H)T 19

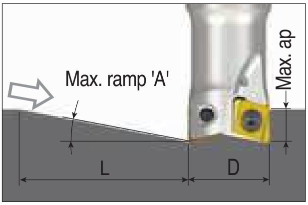
(unit: mm)

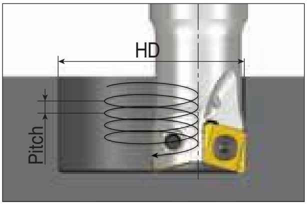
Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø40	3.6	15.0	239	66.7		4.5
					80	6.7
Ø50	2.2	15.0	391	87.9		3.9
					100	5.1
Ø63	1.7	15.0	506	113.9		4
					126	5
Ø80	1.3	15.0	661	147.9		4.1
					160	4.8
Ø100	1.0	15.0	860	187.9		4.1
					200	4.7
Ø125	0.8	15.0	1075	237.9		4.2
					250	4.7
Ø160	0.6	15.0	1433	307.9		4.1
					320	4.5
Ø200	0.4	15.0	2150	387.9		3.5
					400	3.7
Ø250	0.3	15.0	2866	487.9		3.3
					500	3.5

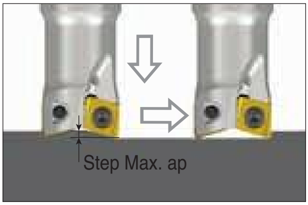
Ramping Data

CHASE4MILL

Straight ramping	Helical ramping	Step down







4NKT 04: R0.2

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø8	4.2	3.5	48	9.9		0.4	0.4
					16	3.1	
Ø10	4.6	3.5	44	13.9		0.8	0.6
					20	2.1	
Ø11	5.2	3.5	38	15.9		1.2	0.7
					22	2.7	
Ø12	4.8	3.5	42	17.9		1.3	0.7
					24	2.7	
Ø13	5.1	3.5	39	19.9		1.6	0.7
					26	3.1	
Ø16	4.4	3.5	46	25.9		2.0	0.7
					32	3.3	
Ø20	3.3	3.5	61	33.9		2.1	0.6
					40	3.1	
Ø25	2.5	3.5	80	43.9		2.2	0.6
					50	2.9	
Ø32	1.9	3.5	106	57.9		2.3	0.6
					64	2.8	
Ø40	1.4	3.5	138	73.9		2.3	0.6
					80	2.7	

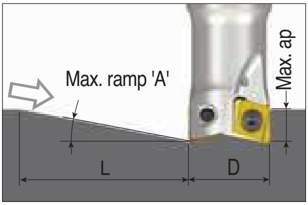
4NKT 04: R0.4

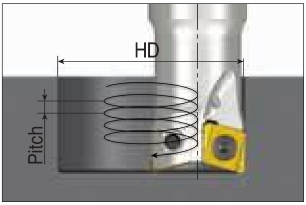
(unit: mm)

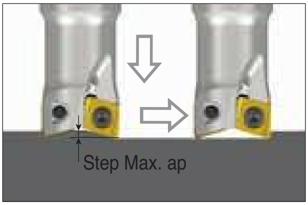
Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø8	3.7	3.5	54	9.9		0.3	0.4
					16	2.8	
Ø10	4.2	3.5	48	13.9		0.8	0.5
					20	2.0	
Ø11	4.8	3.5	42	15.9		1.1	0.6
					22	2.5	
Ø12	4.5	3.5	44	17.9		1.2	0.6
					24	2.5	
Ø13	4.7	3.5	43	19.9		1.5	0.6
					26	2.9	
Ø16	4.1	3.5	49	25.9		1.9	0.6
					32	3.1	
Ø20	3.1	3.5	65	33.9		2.0	0.5
					40	2.9	
Ø25	2.3	3.5	85	43.9		2.1	0.5
					50	2.7	
Ø32	1.7	3.5	115	57.9		2.1	0.5
					64	2.6	
Ø40	1.3	3.5	149	73.9		2.1	0.5
					80	2.5	

Ramping Data

Straight ramping	Helical ramping	Step down





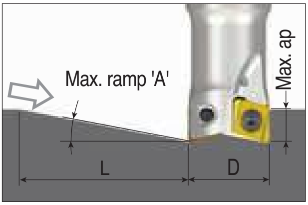


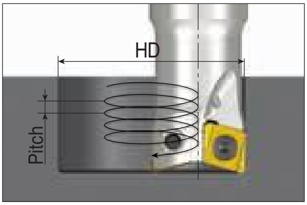
4NKT 04: R0.8

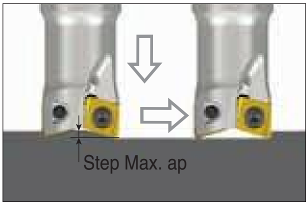
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø8	2.2	3.5	91	9.9		0.2	0.2
					16	1.6	
Ø10	3.0	3.5	67	13.9		0.5	0.4
					20	1.4	
Ø11	3.7	3.5	54	15.9		0.8	0.4
					22	1.9	
Ø12	3.5	3.5	57	17.9		1.0	0.4
					24	2.0	
Ø13	3.9	3.5	51	19.9		1.3	0.4
					26	2.4	
Ø16	3.5	3.5	57	25.9		1.6	0.4
					32	2.6	
Ø20	2.6	3.5	77	33.9		1.7	0.3
					40	2.4	
Ø25	1.9	3.5	103	43.9		1.7	0.3
					50	2.3	
Ø32	1.5	3.5	134	57.9		1.8	0.3
					64	2.2	
Ø40	1.1	3.5	174	73.9		1.8	0.3
					80	2.1	

Straight ramping	Helical ramping	Step down







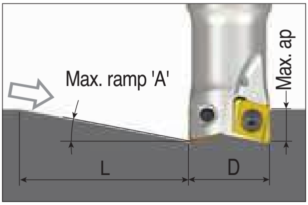
4NKT 06: R0.4

(unit: mm)

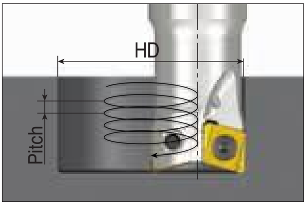
Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø16	4.3	6.0	80	21.5		1.1	0.65
					32	3.2	
Ø17	4.3	6.0	80	23.5		1.3	0.65
					34	3.4	
Ø18	4.7	6.0	73	25.5		1.6	0.65
					36	3.9	
Ø20	4.9	6.0	70	29.5		2.2	0.65
					40	4.6	
Ø21	5.0	6.0	69	31.5		2.5	0.65
					42	4.9	
Ø25	4.9	6.0	70	39.5		3.3	0.65
					50	5.7	
Ø26	4.6	6.0	75	41.5		3.3	0.65
					52	5.6	
Ø32	3.5	6.0	98	53.5		3.5	0.65
					64	5.2	
Ø33	3.4	6.0	101	55.5		3.6	0.65
					66	5.2	
Ø35	3.1	6.0	111	59.5		3.5	0.65
					70	5.1	
Ø36	3.0	6.0	115	61.5		3.6	0.65
					72	5.0	
Ø38	2.8	6.0	123	65.5		3.6	0.65
					76	5.0	
Ø40	2.6	6.0	130	69.5		3.6	0.65
					80	4.9	
Ø43	2.4	6.0	143	75.5		3.6	0.65
					86	4.8	
Ø50	2.0	6.0	168	89.5		3.8	0.65
					100	4.8	
Ø63	1.6	6.0	215	115.5		3.9	0.65
					126	4.7	

Ramping Data

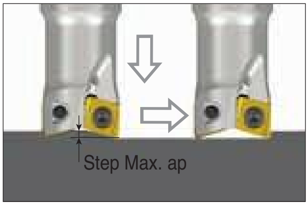
Straight ramping



Helical ramping



Step down



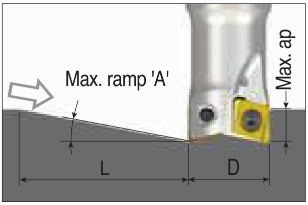
4NKT 06: R0.8

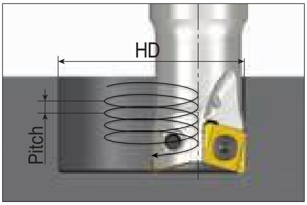
(unit: mm)

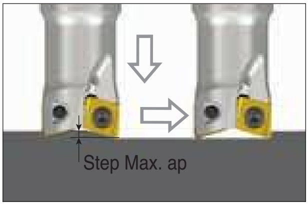
Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø16	3.7	6.0	93	21.5		0.9	0.55
					32	2.8	
Ø17	3.8	6.0	90	23.5		1.2	0.55
					34	3.0	
Ø18	4.2	6.0	82	25.5		1.5	0.55
					36	3.5	
Ø20	4.4	6.0	78	29.5		2.0	0.55
					40	4.1	
Ø21	4.6	6.0	75	31.5		2.3	0.55
					42	4.5	
Ø25	4.6	6.0	75	39.5		3.1	0.55
					50	5.4	
Ø26	4.3	6.0	80	41.5		3.1	0.55
					52	5.2	
Ø32	3.2	6.0	107	53.5		3.2	0.55
					64	4.8	
Ø33	3.1	6.0	111	55.5		3.3	0.55
					66	4.8	
Ø35	2.8	6.0	121	59.5		3.3	0.55
					70	4.6	
Ø36	2.7	6.0	125	61.5		3.3	0.55
					72	4.6	
Ø38	2.5	6.0	135	65.5		3.3	0.55
					76	4.5	
Ø40	2.4	6.0	140	69.5		3.4	0.55
					80	4.6	
Ø43	2.2	6.0	153	75.5		3.4	0.55
					86	4.5	
Ø50	1.9	6.0	181	89.5		3.5	0.55
					100	4.4	
Ø63	1.4	6.0	237	115.5		3.5	0.55
					126	4.3	

Ramping Data

Straight ramping	Helical ramping	Step down







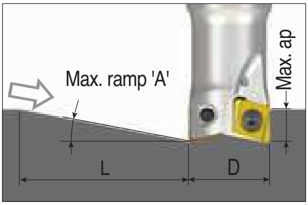
4NKT 06: R1.2

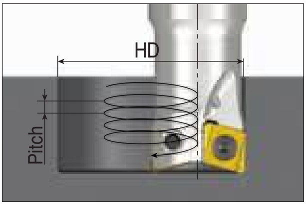
(unit: mm)

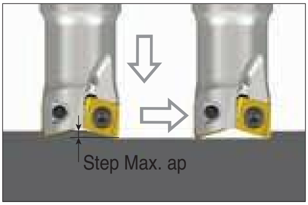
Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø16	3.0	6.0	115	21.5		0.8	0.4
					32	2.2	
Ø17	3.2	6.0	107	23.5		1.0	0.4
					34	2.5	
Ø18	3.6	6.0	95	25.5		1.3	0.4
					36	3.0	
Ø20	3.9	6.0	88	29.5		1.7	0.4
					40	3.6	
Ø21	4.1	6.0	84	31.5		2.0	0.4
					42	4.0	
Ø25	4.2	6.0	82	39.5		2.8	0.4
					50	4.9	
Ø26	3.9	6.0	88	41.5		2.8	0.4
					52	4.7	
Ø32	2.9	6.0	119	53.5		2.9	0.4
					64	4.3	
Ø33	2.8	6.0	123	55.5		2.9	0.4
					66	4.3	
Ø35	2.6	6.0	132	59.5		3.0	0.4
					70	4.2	
Ø36	2.5	6.0	137	61.5		3.0	0.4
					72	4.2	
Ø38	2.3	6.0	146	65.5		3.0	0.4
					76	4.2	
Ø40	2.2	6.0	156	69.5		3.0	0.4
					80	4.1	
Ø43	2.0	6.0	168	75.5		3.1	0.4
					86	4.1	
Ø50	1.7	6.0	202	89.5		3.1	0.4
					100	4.0	
Ø63	1.3	6.0	265	115.5		3.2	0.4
					126	3.8	

Ramping Data

Straight ramping	Helical ramping	Step down







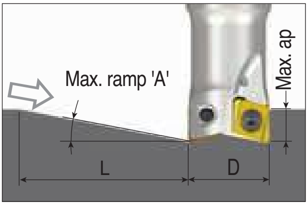
4NKT 06: R1.6

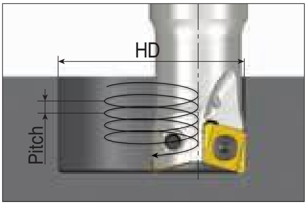
(unit: mm)

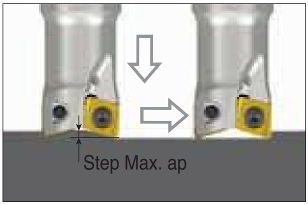
Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø16	2.2	6.0	156	21.5		0.6	0.2
					32	1.6	
Ø17	2.4	6.0	143	23.5		0.7	0.2
					34	1.9	
Ø18	2.8	6.0	123	25.5		1.0	0.2
					36	2.3	
Ø20	3.2	6.0	107	29.5		1.4	0.2
					40	3.0	
Ø21	3.4	6.0	101	31.5		1.7	0.2
					42	3.3	
Ø25	3.7	6.0	93	39.5		2.5	0.2
					50	4.3	
Ø26	3.4	6.0	101	41.5		2.5	0.2
					52	4.1	
Ø32	2.5	6.0	135	53.5		2.6	0.2
					64	3.8	
Ø33	2.4	6.0	140	55.5		2.6	0.2
					66	3.8	
Ø35	2.3	6.0	149	59.5		2.6	0.2
					70	3.8	
Ø36	2.2	6.0	156	61.5		2.6	0.2
					72	3.7	
Ø38	2.0	6.0	168	65.5		2.6	0.2
					76	3.6	
Ø40	1.9	6.0	176	69.5		2.7	0.2
					80	3.6	
Ø43	1.8	6.0	191	75.5		2.7	0.2
					86	3.6	
Ø50	1.5	6.0	229	89.5		2.8	0.2
					100	3.5	
Ø63	1.1	6.0	299	115.5		2.8	0.2
					126	3.4	

Ramping Data

Straight ramping	Helical ramping	Step down







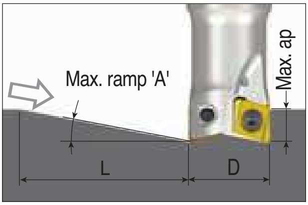
4NKT 06: R2.0

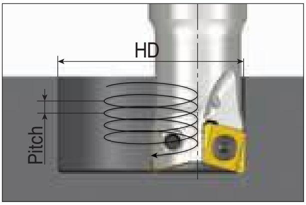
(unit: mm)

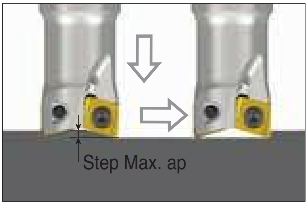
Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø16	1.6	6.0	215	21.5		0.4	0.05
					32	1.2	
Ø17	1.8	6.0	191	23.5		0.5	0.05
					34	1.4	
Ø18	2.3	6.0	149	25.5		0.8	0.05
					36	1.9	
Ø20	2.7	6.0	125	29.5		1.2	0.05
					40	2.6	
Ø21	3.0	6.0	115	31.5		1.5	0.05
					42	2.9	
Ø25	3.3	6.0	104	39.5		2.2	0.05
					50	3.8	
Ø26	3.1	6.0	111	41.5		2.2	0.05
					52	3.8	
Ø32	2.3	6.0	149	53.5		2.3	0.05
					64	3.4	
Ø33	2.2	6.0	156	55.5		2.3	0.05
					66	3.4	
Ø35	2.0	6.0	168	59.5		2.3	0.05
					70	3.3	
Ø36	2.0	6.0	172	61.5		2.4	0.05
					72	3.4	
Ø38	1.8	6.0	186	65.5		2.4	0.05
					76	3.3	
Ø40	1.7	6.0	196	69.5		2.4	0.05
					80	3.3	
Ø43	1.3	6.0	265	75.5		2.0	0.05
					86	2.6	
Ø50	1.3	6.0	255	89.5		2.5	0.05
					100	3.1	
Ø63	1.0	6.0	328	115.5		2.6	0.05
					126	3.1	

Ramping Data

Straight ramping	Helical ramping	Step down







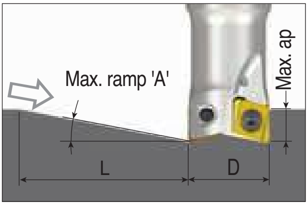
4NHT 06: R0.4

(unit: mm)

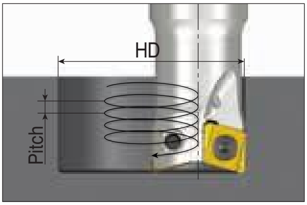
Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø16	2.9	6.0	119	21.5		0.7	0.35
					32	2.2	
Ø17	3.0	6.0	115	23.5		0.9	0.35
					34	2.4	
Ø18	3.4	6.0	101	25.5		1.2	0.35
					36	2.9	
Ø20	3.8	6.0	90	29.5		1.7	0.35
					40	3.5	
Ø21	4.0	6.0	86	31.5		2.0	0.35
					42	3.9	
Ø25	4.1	6.0	84	39.5		2.8	0.35
					50	4.8	
Ø26	3.8	6.0	90	41.5		2.7	0.35
					52	4.6	
Ø32	2.8	6.0	123	53.5		2.8	0.35
					64	4.2	
Ø33	2.7	6.0	127	55.5		2.8	0.35
					66	4.2	
Ø35	2.5	6.0	135	59.5		2.9	0.35
					70	4.2	
Ø36	2.4	6.0	140	61.5		2.9	0.35
					72	4.1	
Ø38	2.3	6.0	149	65.5		2.9	0.35
					76	4.1	
Ø40	2.1	6.0	160	69.5		3.0	0.35
					80	4.0	
Ø43	1.9	6.0	176	75.5		3.0	0.35
					86	3.9	
Ø50	1.6	6.0	208	89.5		3.0	0.35
					100	3.8	
Ø63	1.2	6.0	275	115.5		3.1	0.35
					126	3.7	

Ramping Data

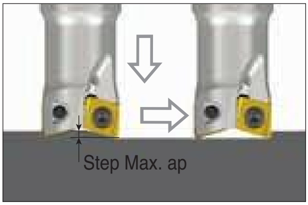
Straight ramping



Helical ramping



Step down

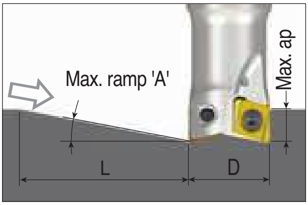
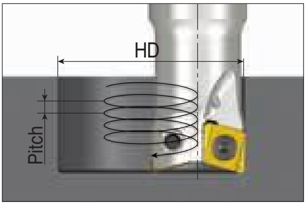
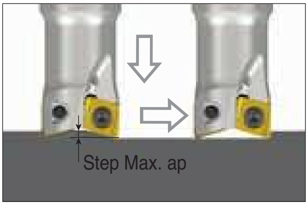


4NHT 06: R0.8

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø16	2.9	6.0	119	21.5		0.7	0.35
					32	2.2	
Ø17	3.0	6.0	115	23.5		0.9	0.35
					34	2.4	
Ø18	3.5	6.0	98	25.5		1.2	0.35
					36	2.9	
Ø20	3.8	6.0	90	29.5		1.7	0.35
					40	3.5	
Ø21	4.0	6.0	86	31.5		2.0	0.35
					42	3.9	
Ø25	4.1	6.0	84	39.5		2.8	0.35
					50	4.8	
Ø26	3.8	6.0	90	41.5		2.7	0.35
					52	4.6	
Ø32	2.8	6.0	123	53.5		2.8	0.35
					64	4.2	
Ø33	2.7	6.0	127	55.5		2.8	0.35
					66	4.2	
Ø35	2.5	6.0	135	59.5		2.9	0.35
					70	4.2	
Ø36	2.4	6.0	140	61.5		2.9	0.35
					72	4.1	
Ø38	2.3	6.0	149	65.5		2.9	0.35
					76	4.1	
Ø40	2.1	6.0	160	69.5		3.0	0.35
					80	4.0	
Ø43	1.9	6.0	176	75.5		3.0	0.35
					86	3.9	
Ø50	1.6	6.0	208	89.5		3.0	0.35
					100	3.8	
Ø63	1.25	6.0	275	115.5		3.1	0.35
					126	3.7	

Ramping Data

Straight ramping	Helical ramping	Step down
		

4NHT 06: R0.5-F

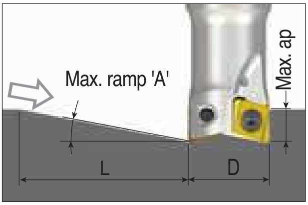
(unit: mm)

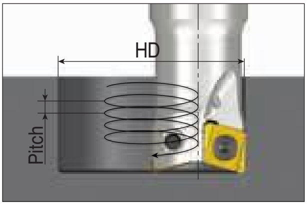
Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø16	3.5	2.3	38	21.5		0.9	0.65
					32	2.6	
Ø17	3.6	2.3	37	23.5		1.1	0.65
					34	2.9	
Ø18	4.0	2.3	33	25.5		1.4	0.65
					36	3.4	
Ø20	4.3	2.3	31	29.5		1.9	0.65
					40	4.0	
Ø21	4.4	2.3	30	31.5		2.2	0.65
					42	4.3	
Ø25	4.9	2.3	27	39.5		3.3	0.65
					50	5.7	
Ø26	4.6	2.3	29	41.5		3.3	0.65
					52	5.6	
Ø32	3.5	2.3	38	53.5		3.5	0.65
					64	5.2	
Ø33	3.3	2.3	40	55.5		3.5	0.65
					66	5.1	
Ø35	3.1	2.3	42	59.5		3.5	0.65
					70	5.1	
Ø36	3.0	2.3	44	61.5		3.6	0.65
					72	5.0	
Ø38	2.8	2.3	47	65.5		3.6	0.65
					76	5.0	
Ø40	2.6	2.3	51	69.5		3.6	0.65
					80	4.8	
Ø43	2.4	2.3	55	75.5		3.6	0.65
					86	4.8	
Ø50	2.0	2.3	64	89.5		3.8	0.65
					100	4.8	
Ø63	1.7	2.3	78	115.5		4.2	0.65
					126	5.0	

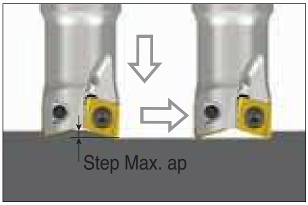
Ramping Data

CHASE4MILL

Straight ramping	Helical ramping	Step down







4NHT 06: R0.8-F

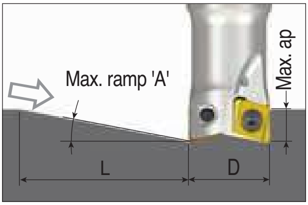
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø16	3.1	1.9	35	21.5		0.8	0.55
					32	2.3	
Ø17	3.2	1.9	34	23.5		1.0	0.55
					34	2.5	
Ø18	3.6	1.9	30	25.5		1.3	0.55
					36	3.0	
Ø20	3.9	1.9	28	29.5		1.7	0.55
					40	3.6	
Ø21	4.1	1.9	27	31.5		2.0	0.55
					42	4.0	
Ø25	4.6	1.9	24	39.5		3.1	0.55
					50	5.4	
Ø26	4.4	1.9	25	41.5		3.2	0.55
					52	5.3	
Ø32	3.3	1.9	33	53.5		3.3	0.55
					64	4.9	
Ø33	3.1	1.9	35	55.5		3.3	0.55
					66	4.8	
Ø35	2.9	1.9	38	59.5		3.3	0.55
					70	4.7	
Ø36	2.8	1.9	39	61.5		3.3	0.55
					72	4.7	
Ø38	2.6	1.9	41	65.5		3.4	0.55
					76	4.7	
Ø40	2.4	1.9	44	69.5		3.4	0.55
					80	4.6	
Ø43	2.2	1.9	48	75.5		3.4	0.55
					86	4.5	
Ø50	1.9	1.9	57	89.5		3.5	0.55
					100	4.4	
Ø63	1.4	1.9	75	115.5		3.5	0.55
					126	4.3	

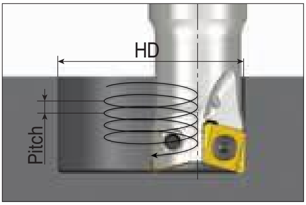
Ramping Data

CHASE4MILL

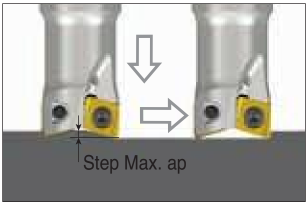
Straight ramping



Helical ramping



Step down

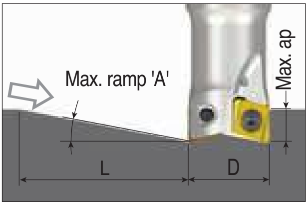
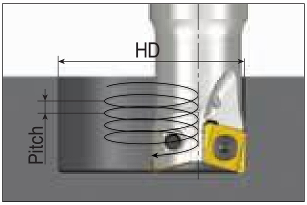
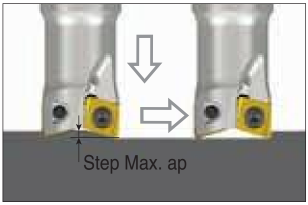


4NHT 06: R1.0-F

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø16	2.7	2.1	44	21.5		0.7	0.45
					32	2.1	
Ø17	2.9	2.1	41	23.5		0.9	0.45
					34	2.3	
Ø18	3.3	2.1	36	25.5		1.2	0.45
					36	2.8	
Ø20	3.6	2.1	33	29.5		1.6	0.45
					40	3.4	
Ø21	3.8	2.1	32	31.5		1.9	0.45
					42	3.7	
Ø25	4.4	2.1	27	39.5		3.0	0.45
					50	5.1	
Ø26	4.2	2.1	29	41.5		3.0	0.45
					52	5.1	
Ø32	3.1	2.1	39	53.5		3.1	0.45
					64	4.6	
Ø33	3.0	2.1	40	55.5		3.1	0.45
					66	4.6	
Ø35	2.8	2.1	43	59.5		3.2	0.45
					70	4.6	
Ø36	2.6	2.1	45	61.5		3.1	0.45
					72	4.4	
Ø38	2.5	2.1	48	65.5		3.2	0.45
					76	4.4	
Ø40	2.3	2.1	51	69.5		3.2	0.45
					80	4.4	
Ø43	2.1	2.1	56	75.5		3.3	0.45
					86	4.3	
Ø50	1.8	2.1	67	89.5		3.3	0.45
					100	4.2	
Ø63	1.4	2.1	86	115.5		3.4	0.45
					126	4.1	

Ramping Data

Straight ramping	Helical ramping	Step down
		

4NHT 06: R1.5-F

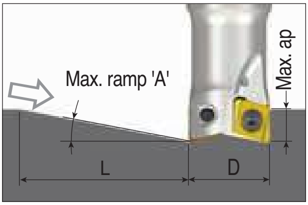
(unit: mm)

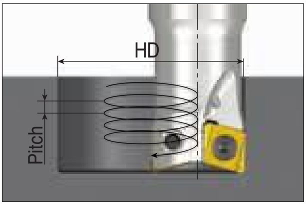
Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø16	1.9	3.3	97	21.5		0.5	0.25
					32	1.5	
Ø17	2.1	3.3	88	23.5		0.7	0.25
					34	1.7	
Ø18	2.6	3.3	73	25.5		0.9	0.25
					36	2.2	
Ø20	3.0	3.3	63	29.5		1.3	0.25
					40	2.8	
Ø21	3.2	3.3	59	31.5		1.6	0.25
					42	3.1	
Ø25	3.9	3.3	48	39.5		2.6	0.25
					50	4.5	
Ø26	3.7	3.3	51	41.5		2.7	0.25
					52	4.5	
Ø32	2.7	3.3	70	53.5		2.7	0.25
					64	4.0	
Ø33	2.6	3.3	71	55.5		2.8	0.25
					66	4.1	
Ø35	2.4	3.3	77	59.5		2.8	0.25
					70	4.0	
Ø36	2.3	3.3	80	61.5		2.8	0.25
					72	3.9	
Ø38	2.2	3.3	86	65.5		2.8	0.25
					76	3.9	
Ø40	2.1	3.3	90	69.5		2.9	0.25
					80	3.9	
Ø43	1.9	3.3	100	75.5		2.9	0.25
					86	3.8	
Ø50	1.6	3.3	118	89.5		2.9	0.25
					100	3.7	
Ø63	1.2	3.3	151	115.5		3.1	0.25
					126	3.7	

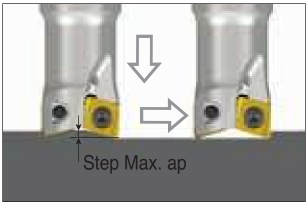
Ramping Data

CHASE4MILL

Straight ramping	Helical ramping	Step down







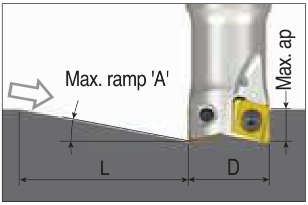
4NHT 06: R2.0-F

(unit: mm)

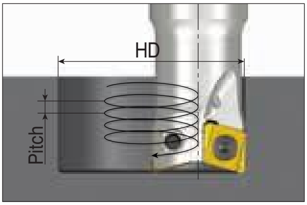
Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø16	0.8	2.1	142	21.5		0.2	0.05
					32	0.6	
Ø17	1.1	2.1	109	23.5		0.3	0.05
					34	0.9	
Ø18	1.6	2.1	75	25.5		0.6	0.05
					36	1.3	
Ø20	2.1	2.1	57	29.5		0.9	0.05
					40	2.0	
Ø21	2.3	2.1	51	31.5		1.1	0.05
					42	2.3	
Ø25	3.2	2.1	38	39.5		2.2	0.05
					50	3.7	
Ø26	3.0	2.1	40	41.5		2.2	0.05
					52	3.6	
Ø32	2.2	2.1	53	53.5		2.3	0.05
					64	3.4	
Ø33	2.1	2.1	56	55.5		2.3	0.05
					66	3.3	
Ø35	2.0	2.1	60	59.5		2.3	0.05
					70	3.3	
Ø36	1.9	2.1	62	61.5		2.3	0.05
					72	3.3	
Ø38	1.8	2.1	67	65.5		2.3	0.05
					76	3.2	
Ø40	1.7	2.1	71	69.5		2.3	0.05
					80	3.2	
Ø43	1.5	2.1	78	75.5		2.3	0.05
					86	3.1	
Ø50	1.3	2.1	93	89.5		2.4	0.05
					100	3.0	
Ø63	1.0	2.1	120	115.5		2.4	0.05
					126	2.9	

Ramping Data

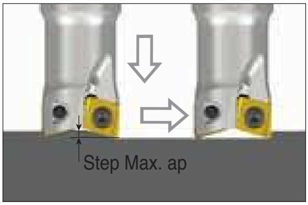
Straight ramping



Helical ramping



Step down



4NKT 09: R0.8

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø20	3.7	8.0	124	25.5		0.9	0.9
					40	3.5	
Ø25	4.9	8.0	93	35.5		2.4	0.9
					50	5.7	
Ø32	4.9	8.0	93	49.5		4.0	0.9
					64	7.3	
Ø40	3.6	8.0	127	65.5		4.3	0.9
					80	6.7	
Ø50	2.7	8.0	170	85.5		4.5	0.9
					100	6.3	
Ø63	2.0	8.0	224	111.5		4.6	0.9
					126	6.0	
Ø80	1.5	8.0	296	145.5		4.7	0.9
					160	5.8	

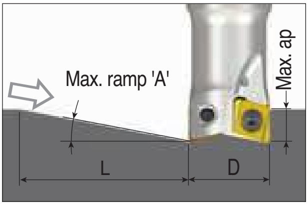
4NKT 09: R1.6

(unit: mm)

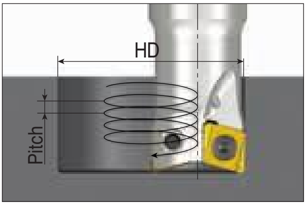
Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø20	2.7	8.0	167	25.5		0.7	0.6
					40	2.6	
Ø25	4.1	8.0	112	35.5		2.0	0.6
					50	4.8	
Ø32	4.4	8.0	104	49.5		3.6	0.6
					64	6.6	
Ø40	3.1	8.0	148	65.5		3.7	0.6
					80	5.8	
Ø50	2.3	8.0	195	85.5		3.9	0.6
					100	5.5	
Ø63	1.8	8.0	255	111.5		4.1	0.6
					126	5.3	
Ø80	1.3	8.0	340	145.5		4.1	0.6
					160	5.0	

Ramping Data

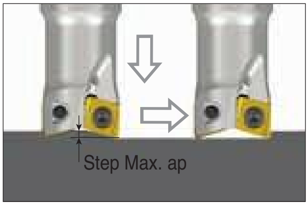
Straight ramping



Helical ramping



Step down



4NHT 09: R0.4

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø20	2.9	8.0	155	25.5		0.8	0.9
					40	2.7	
Ø25	4.3	8.0	106	35.5		2.1	0.9
					50	5.0	
Ø32	4.5	8.0	102	49.5		3.7	0.9
					64	6.7	
Ø40	3.2	8.0	143	65.5		3.8	0.9
					80	6.0	
Ø50	2.4	8.0	191	85.5		4.0	0.9
					100	5.6	
Ø63	1.8	8.0	255	111.5		4.1	0.9
					126	5.3	
Ø80	1.3	8.0	340	145.5		4.1	0.9
					160	5.0	

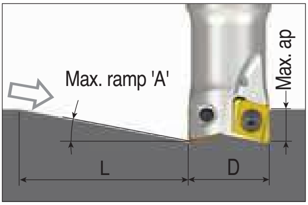
4NHT 09: R0.8

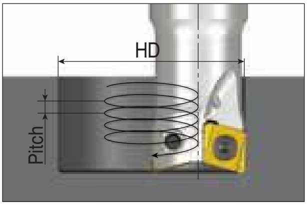
(unit: mm)

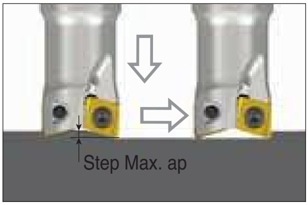
Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø20	2.9	8.0	155	25.5		0.8	0.6
					40	2.7	
Ø25	4.3	8.0	106	35.5		2.1	0.6
					50	5.0	
Ø32	4.5	8.0	102	49.5		3.7	0.6
					64	6.7	
Ø40	3.2	8.0	143	65.5		3.8	0.6
					80	6.0	
Ø50	2.4	8.0	191	85.5		4.0	0.6
					100	5.6	
Ø63	1.8	8.0	255	111.5		4.1	0.6
					126	5.3	
Ø80	1.3	8.0	340	145.5		4.1	0.6
					160	5.0	

Ramping Data

Straight ramping	Helical ramping	Step down







4NKT 11: R0.8

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø25	5.1	10.3	115	31.5		1.5	1.4
					50	6.0	
Ø32	5.3	10.3	111	45.5		3.3	1.3
					64	7.9	
Ø40	5.0	10.3	118	61.5		5.0	1.2
					80	9.3	
Ø50	3.7	10.3	159	81.5		5.4	1.2
					100	8.6	
Ø63	2.7	10.3	219	107.5		5.6	1.2
					126	7.9	
Ø80	2.0	10.3	288	141.5		5.9	1.2
					160	7.6	

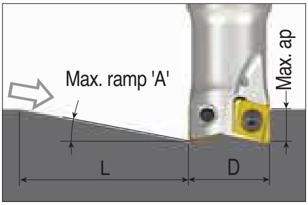
4NKT 14: R0.8

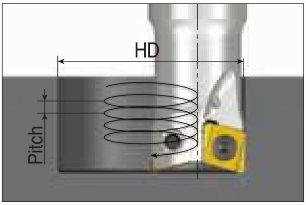
(unit: mm)

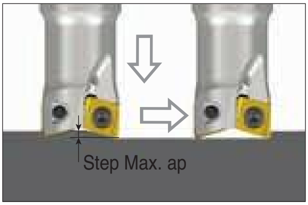
Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø32	5.2	13.5	148	39.5		1.8	1.5
					64	7.8	
Ø40	5.2	13.5	148	55.5		3.8	1.3
					80	9.7	
Ø50	5.5	13.5	140	75.5		6.6	1.3
					100	12.8	
Ø63	4.0	13.5	193	101.5		7.2	1.3
					126	11.8	
Ø80	2.9	13.5	267	135.5		7.5	1.3
					160	10.8	

Ramping Data

Straight ramping	Helical ramping	Step down







4NKT 11 PNR: R0.8

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø25	4.0	10.3	147	31.5		1.2	1.1
					50	4.7	
Ø32	4.3	10.3	135	45.5		2.7	1.0
					64	6.5	
Ø40	4.5	10.3	131	61.5		4.5	0.9
					80	8.4	
Ø50	3.2	10.3	184	81.5		4.7	0.9
					100	7.5	
Ø63	2.4	10.3	246	107.5		5.0	0.9
					126	7.0	
Ø80	1.8	10.3	328	141.5		5.2	0.9
					160	6.7	

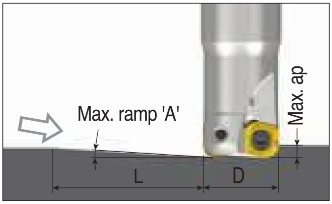
4NKT 14 PNR: R0.8

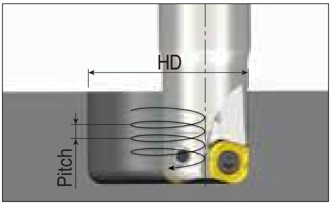
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø32	4.1	13.5	188	39.5		1.4	1.1
					64	6.1	
Ø40	4.3	13.5	180	55.5		3.1	0.9
					80	8.0	
Ø50	4.7	13.5	163	75.5		5.7	0.9
					100	11.1	
Ø63	3.5	13.5	221	101.5		6.3	0.9
					126	10.3	
Ø80	2.6	13.5	297	135.5		6.7	0.9
					160	9.7	

Ramping Data

Straight ramping	Helical ramping





4NKT 04-HF: R1.2

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø8	0.1	0.5	191	9.9		0.0
					16	0.1
Ø10	0.8	0.5	34	13.9		0.2
					20	0.4
Ø11	1.6	0.5	18	15.9		0.4
					22	0.5
Ø12	1.6	0.5	18	17.9		0.4
					24	0.5
Ø13	2.0	0.5	14	19.9		0.5
					26	0.5
Ø16	1.9	0.5	15	25.9		0.5
					32	0.5
Ø20	2.3	0.5	12	33.9		0.5
					40	0.5
Ø25	1.7	0.5	16	43.9		0.5
					50	0.5
Ø32	1.3	0.5	22	57.9		0.5
					64	0.5
Ø40	1.0	0.5	29	73.9		0.5
					80	0.5

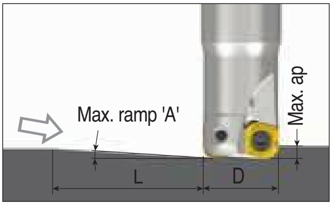
4NKT 06-HF: R2.0

(unit: mm)

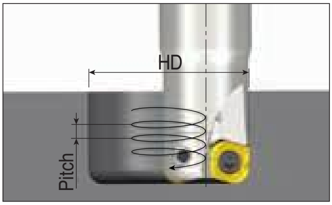
Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø16	0.6	1.0	88	21.4		0.2
					32	0.5
Ø17	0.7	1.0	76	23.4		0.2
					34	0.6
Ø18	1.1	1.0	50	25.4		0.4
					36	1.0
Ø20	1.7	1.0	34	29.4		0.7
					40	1.0
Ø21	1.9	1.0	29	31.4		0.9
					42	1.0
Ø25	2.3	1.0	24	39.4		1.0
					50	1.0
Ø26	3.2	1.0	18	41.4		1.0
					52	1.0
Ø32	2.4	1.0	24	53.4		1.0
					64	1.0
Ø40	1.8	1.0	32	69.4		1.0
					80	1.0
Ø50	1.4	1.0	41	89.4		1.0
					100	1.0
Ø63	1.1	1.0	52	115.4		1.0
					126	1.0

Ramping Data

Straight ramping



Helical ramping



4NKT 09-HF: R3.2

(unit: mm)

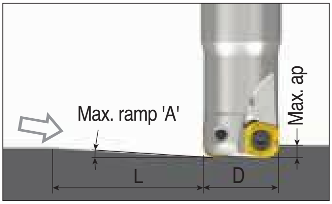
Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø20	0.3	1.5	287	25		0.1
					40	0.3
Ø25	1.2	1.5	69	35		0.6
					50	1.5
Ø32	2.4	1.5	35	49		1.5
					64	1.5
Ø40	2.3	1.5	37	65		1.5
					80	1.5
Ø50	1.7	1.5	49	85		1.5
					100	1.5
Ø63	1.3	1.5	66	111		1.5
					126	1.5
Ø80	1.0	1.5	86	145		1.5
					160	1.5

4NKT 11-HF: R4.0

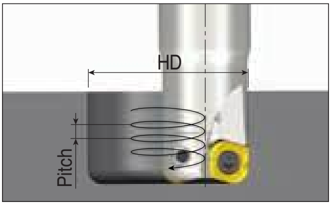
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø25	0.8	2.0	143	31		0.2
					50	0.9
Ø32	2.0	2.0	57	45		1.2
					64	2.0
Ø40	3.4	2.0	34	61		2.0
					80	2.0
Ø50	2.4	2.0	48	81		2.0
					100	2.0
Ø63	1.8	2.0	64	107		2.0
					126	2.0
Ø80	1.3	2.0	85	141		2.0
					160	2.0

Straight ramping



Helical ramping

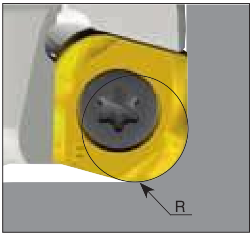


4NKT 14-HF: R5.0

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø32	1.0	3.0	172	39		0.3
					64	1.5
Ø40	1.8	3.0	96	55		1.3
					80	3.0
Ø50	3.9	3.0	44	75		3.0
					100	3.0
Ø63	2.7	3.0	64	101		3.0
					126	3.0
Ø80	1.9	3.0	88	135		3.0
					160	3.0

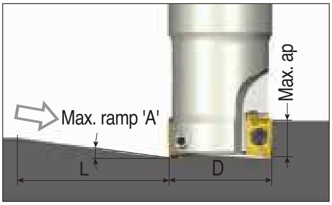
Programming technical data



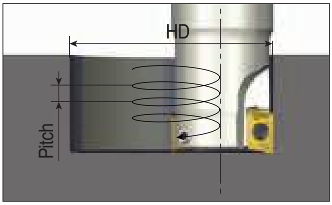
	R Program	A Over cut	B Un-machined
4NKT 040212R-HF	1.2	0	0
4NKT 060320R-HF	2.0	0	0
4NKT 090432R-HF	3.2	0	0
4NKT 110640R-HF	4.0	0	0
4NKT 140750R-HF	5.0	0	0

Ramping Data

Straight ramping



Helical ramping



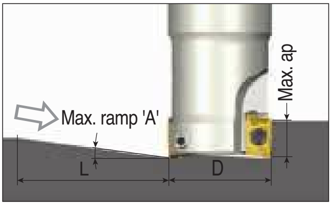
AXMT 06

(unit: mm)

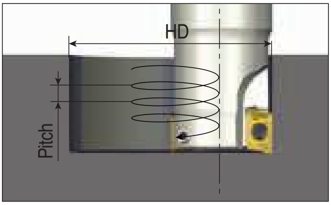
Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø8	1.0	5.0	287	9		0.0
					16	0.4
Ø10	8.0	5.0	36	13		1.1
					20	3.7
Ø11	6.0	5.0	48	15		1.1
					22	3.1
Ø12	6.0	5.0	48	17		1.4
					24	3.4
Ø13	5.5	5.0	52	19		1.5
					26	3.3
Ø14	4.8	5.0	60	21		1.6
					28	3.1
Ø15	4.3	5.0	67	23		1.6
					30	3.0
Ø16	4.0	5.0	72	25		1.7
					32	3.0
Ø17	3.5	5.0	82	27		1.6
					34	2.8
Ø18	5.0	5.0	57	29		2.6
					36	4.2
Ø19	4.8	5.0	60	31		2.7
					38	4.3
Ø20	4.0	5.0	72	33		2.4
					40	3.7
Ø21	3.5	5.0	82	35		2.3
					42	3.4
Ø25	3.0	5.0	95	43		2.5
					50	3.5
Ø32	2.0	5.0	143	57		2.3
					64	3.0
Ø40	1.5	5.0	191	73		2.3
					80	2.8

Ramping Data

Straight ramping



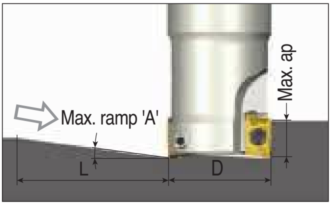
Helical ramping



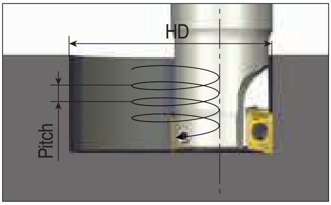
APKT 09 (unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø10	7.5	9.0	68	14		1.4
					20	3.5
Ø12	7.3	9.0	70	16		1.4
					24	4.1
Ø14	6.0	9.0	86	18		1.1
					28	3.9
Ø16	4.9	9.0	105	21.08		1.2
					32	3.7
Ø17	4.4	9.0	117	23.08		1.2
					34	3.5
Ø18	4.0	9.0	129	25.08		1.3
					36	3.4
Ø20	3.4	9.0	152	29.08		1.4
					40	3.2
Ø21	3.1	9.0	166	31.08		1.5
					42	3.0
Ø22	2.8	9.0	184	33.08		1.4
					44	2.9
Ø25	1.8	9.0	287	39.08		1.2
					50	2.1
Ø26	2.0	9.0	258	41.08		1.4
					52	2.4
Ø30	2.2	9.0	234	49.08		2.0
					60	3.1
Ø32	2.0	9.0	258	53.08		2.0
					64	3.0
Ø33	1.7	9.0	303	55.08		1.7
					66	2.6
Ø40	1.5	9.0	344	69.08		2.0
					80	2.8
Ø50	1.1	9.0	469	89.08		2.0
					100	2.6
Ø63	0.8	9.0	645	115.08		1.9
					126	2.3
Ø80	0.5	9.0	1032	149.08		1.6
					160	1.9

Straight ramping



Helical ramping



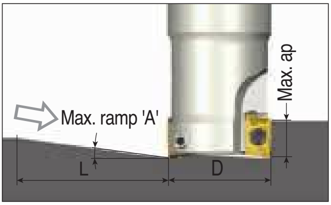
APKT 12

(unit: mm)

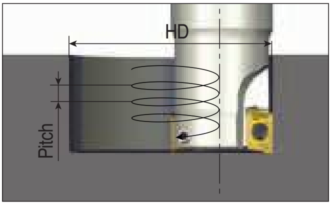
Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø16	12.5	12.0	54	17.5		0.5
					32	9.5
Ø18	9.7	12.0	70	20.9		1.3
					36	8.2
Ø20	6.8	12.0	101	24.9		1.6
					40	6.4
Ø21	6.2	12.0	111	26.9		1.7
					42	6.1
Ø25	8.0	12.0	85	34.9		3.7
					50	9.4
Ø26	7.5	12.0	91	36.9		3.8
					52	9.1
Ø32	5.0	12.0	137	48.9		3.9
					64	7.5
Ø33	4.6	12.0	149	50.9		3.8
					66	7.1
Ø40	3.5	12.0	196	64.9		4.1
					80	6.5
Ø50	2.5	12.0	275	84.9		4.8
					100	5.8
Ø63	1.7	12.0	405	110.9		4.5
					126	5.0
Ø80	1.3	12.0	529	144.9		4.6
					160	4.8

Ramping Data

Straight ramping



Helical ramping



APKT 17

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø20	8.0	16.1	115	22		0.7
					40	7.5
Ø25	5.0	16.1	184	30.6		1.3
					50	5.8
Ø26	4.0	16.1	230	32.6		1.2
					52	4.9
Ø32	9.0	16.1	102	44.6		5.3
					64	13.5
Ø33	9.0	16.1	102	46.6		5.7
					66	13.9
Ø40	5.0	16.1	184	60.6		4.8
					80	9.3
Ø50	4.4	16.1	209	80.6		6.3
					100	10.3
Ø63	3.2	16.1	288	106.6		6.5
					126	9.4
Ø80	2.3	16.1	401	140.6		6.5
					160	8.6
Ø100	1.8	16.1	513	180.6		6.8
					200	8.4
Ø125	1.4	16.1	659	230.6		6.9
					250	8.1
Ø160	1.0	16.1	923	300.6		6.5
					320	7.5
Ø200	0.7	16.1	1318	380.6		5.9
					400	6.5

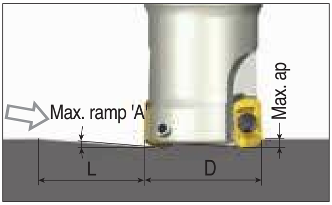
APKT 19

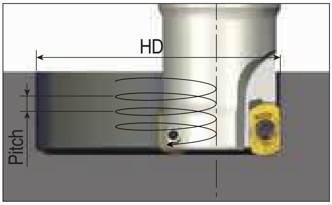
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø40	6.0	17.5	167	56		4.5
					80	11.2
Ø50	4.0	17.5	250	76		4.9
					100	9.3
Ø63	2.9	17.5	346	102		5.3
					126	8.5
Ø80	2.1	17.5	477	136		5.5
					160	7.8
Ø100	1.6	17.5	627	176		5.7
					200	7.5
Ø125	1.2	17.5	736	226		5.6
					250	7.0
Ø160	0.9	17.5	1115	296		5.7
					320	6.7
Ø200	0.7	17.5	1433	376		5.7
					400	6.5

Ramping Data

Straight ramping	Helical ramping



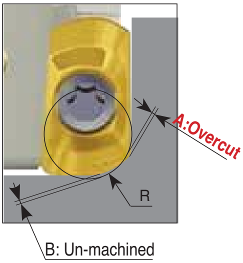


AXMT 0602R-HF

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø8	0.3	0.5	96	14		0.1
					16	0.1
Ø10	0.5	0.5	57	14		0.1
					20	0.2
Ø11	1.0	0.5	29	18		0.3
					22	0.5
Ø12	2.3	0.5	12	18		0.5
					24	0.5
Ø13	4.5	0.5	6	18		0.5
					26	0.5
Ø14	3.5	0.5	8	18		0.5
					28	0.5
Ø15	3.0	0.5	10	26		0.5
					30	0.5
Ø16	2.8	0.5	10	26		0.5
					32	0.5
Ø17	2.5	0.5	11	26		0.5
					34	0.5
Ø18	2.3	0.5	12	26		0.5
					36	0.5
Ø19	2.2	0.5	13	26		0.5
					38	0.5
Ø20	1.9	0.5	15	34		0.5
					40	0.5
Ø21	1.7	0.5	17	34		0.5
					42	0.5
Ø25	1.4	0.5	20	44		0.5
					50	0.5
Ø32	1.0	0.5	29	58		0.5
					64	0.5
Ø40	0.7	0.5	41	74		0.5
					80	0.5

Programming technical data

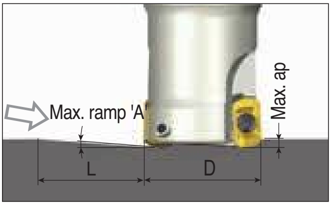


	R Program	A Over cut	B Un-machined
AXMT 0602R-HF	0.9	0	0.22
	1.0	0.01	0.19
	1.5	0.16	0.05
	2.0	0.35	0
APKT 09T3R-HF	1.5	0	0.47
	1.7	0	0.29
	2.0	0.04	0.3
	2.5	0.18	0.15
	3.0	0.36	0.04
APKT 1204R-HF	2	0	0.57
	2.5	0.07	0.42
	3	0.21	0.28
	3.5	0.39	0.15
	4	0.58	0.06

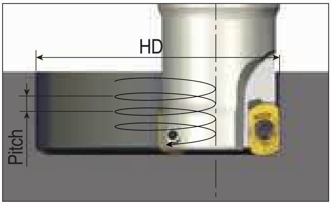
:Recommended program 'R'

Ramping Data

Straight ramping



Helical ramping



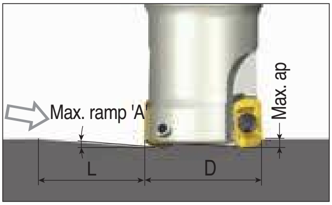
APKT 09T3R-HF

(unit: mm)

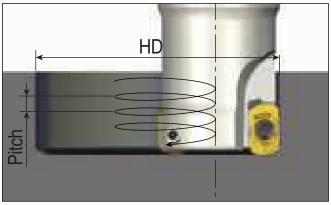
Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø16	3.8	1.0	15	22		1.0
					32	1.0
Ø17	3.5	1.0	16	24		1.0
					34	1.0
Ø18	3.4	1.0	17	26		1.0
					36	1.0
Ø20	3.0	1.0	19	30		1.0
					40	1.0
Ø21	2.3	1.0	25	32		1.0
					42	1.0
Ø22	2.0	1.0	29	34		1.0
					44	1.0
Ø25	2.1	1.0	27	40		1.0
					50	1.0
Ø26	2.0	1.0	29	42		1.0
					52	1.0
Ø30	1.8	1.0	32	50		1.0
					60	1.0
Ø32	1.6	1.0	36	54		1.0
					64	1.0
Ø33	1.5	1.0	38	56		1.0
					66	1.0
Ø40	1.2	1.0	48	70		1.0
					80	1.0
Ø50	0.9	1.0	64	90		1.0
					100	1.0
Ø63	0.5	1.0	115	116		1.0
					126	1.0
Ø80	0.4	1.0	143	150		1.0
					160	1.0

Ramping Data

Straight ramping



Helical ramping

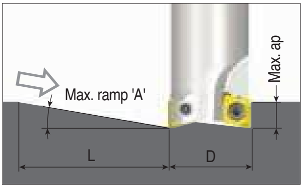


APKT 1204R-HF

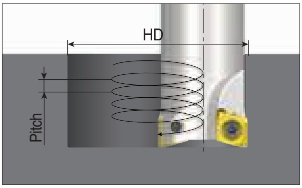
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø16	3.8	1.2	18	21		0.8
					32	1.2
Ø18	4.0	1.2	17	24		1.1
					36	1.2
Ø20	4.0	1.2	17	27		1.2
					40	1.2
Ø21	3.5	1.2	20	29		1.2
					42	1.2
Ø25	2.5	1.2	27	37		1.2
					50	1.2
Ø26	2.3	1.2	30	39		1.2
					52	1.2
Ø32	1.7	1.2	40	51		1.2
					64	1.2
Ø33	1.7	1.2	40	53		1.2
					66	1.2
Ø40	1.5	1.2	46	67		1.2
					80	1.2
Ø50	1.1	1.2	63	86		1.2
					100	1.2
Ø63	1.0	1.2	69	112		1.2
					126	1.2
Ø80	0.8	1.2	86	146		1.2
					160	1.2

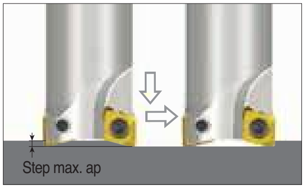
Straight ramping



Helical ramping



Step down



2PKT 05: 0.4R

(unit: mm)

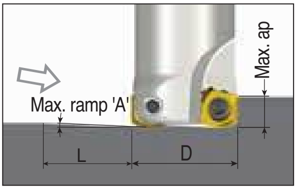
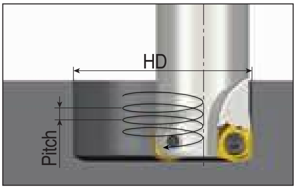
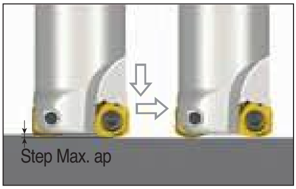
Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø12	7.4	4.7	36	15.9		1.4	0.8
					24	4.2	
Ø13	6.4	4.7	42	17.9		1.5	0.8
					26	3.9	
Ø14	5.5	4.7	49	19.9		1.5	0.8
					28	3.6	
Ø16	4.2	4.7	64	23.9		1.5	0.8
					32	3.1	
Ø17	3.8	4.7	71	25.9		1.6	0.8
					34	3	
Ø18	3.5	4.7	77	27.9		1.6	0.8
					36	2.9	
Ø20	2.9	4.7	93	31.9		1.6	0.75
					40	2.7	
Ø21	2.7	4.7	100	33.9		1.6	0.75
					42	2.6	
Ø25	2.1	4.7	128	41.9		1.7	0.75
					50	2.4	
Ø26	1.9	4.7	138	43.9		1.6	0.75
					52	2.4	
Ø32	1.5	4.7	180	55.9		1.7	0.75
					64	2.2	
Ø33	1.4	4.7	186	57.9		1.7	0.75
					66	2.2	
Ø40	1.1	4.7	234	71.9		1.7	0.75
					80	2.1	

2PKT07: 0.8R

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø16	8.6	6.0	40	21.5		2.2	1.3
					32	6.5	1.3
Ø20	6.2	6.0	55	29.5		2.8	1.3
					40	5.8	1.3
Ø25	4.3	6.0	80	39.5		2.9	1.3
					50	5.0	1.3
Ø32	2.9	6.0	119	53.5		2.9	1.3
					64	4.3	1.3
Ø40	2.2	6.0	156	69.5		3.0	1.3
					80	4.1	1.3
Ø50	1.6	6.0	208	89.5		3.0	1.3
					100	3.8	1.3
Ø63	1.2	6.0	275	115.5		3.1	1.3
					126	3.7	1.3
Ø80	0.9	6.0	362	149.5		3.1	1.3
					160	3.5	1.3

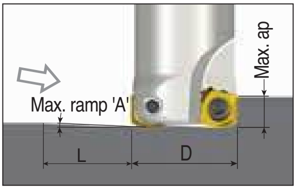
Ramping Data

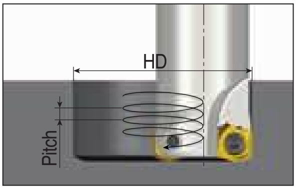
Straight ramping	Helical ramping	Step down
		

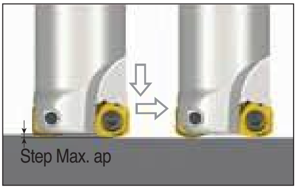
2PKT 0503R-HF

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø12	4.9	0.5	6	20.5		0.5	0.4
					24	0.5	
Ø13	4.4	0.5	6	22.5		0.5	0.4
					26	0.5	
Ø14	3.8	0.5	7	24.5		0.5	0.4
					28	0.5	
Ø16	2.7	0.5	10	28.5		0.5	0.4
					32	0.5	
Ø17	2.6	0.5	11	30.5		0.5	0.4
					34	0.5	
Ø18	2.2	0.5	13	32.5		0.5	0.4
					36	0.5	
Ø20	1.8	0.5	16	36.5		0.5	0.4
					40	0.5	
Ø21	1.8	0.5	16	38.5		0.5	0.4
					42	0.5	
Ø25	1.2	0.5	23	46.5		0.5	0.4
					50	0.5	
Ø26	1.3	0.5	22	48.5		0.5	0.4
					52	0.5	
Ø32	0.9	0.5	32	60.5		0.5	0.4
					64	0.5	
Ø33	0.9	0.5	30	62.5		0.5	0.4
					66	0.5	
Ø40	0.6	0.5	44	76.5		0.5	0.4
					80	0.5	





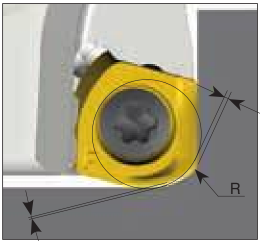


2PKT 0704R-HF

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø16	4.3	0.8	11	26.2		0.8	0.5
					32	0.8	
Ø20	3.6	0.8	13	34.2		0.8	0.6
					40	0.8	
Ø25	2.4	0.8	19	44.2		0.8	0.6
					50	0.8	
Ø32	1.7	0.8	27	58.2		0.8	0.6
					64	0.8	
Ø40	1.2	0.8	37	74.2		0.8	0.6
					80	0.8	
Ø50	0.9	0.8	48	94.2		0.8	0.6
					100	0.8	

Programming technical data

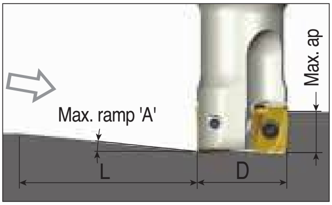


	R Program	A Over cut	B Un-machined
2PKT 0503R-HF	0.9	0	0.260
	1.0	0.008	0.231
	1.5	0.157	0.104
	2.0	0.350	0.018
2PKT 0704R-HF	1.5	0	0.358
	2.0	0.103	0.210
	2.5	0.278	0.089
	3.0	0.470	0.019

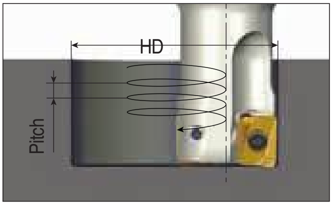
:Recommended program 'R'

Ramping Data

Straight ramping



Helical ramping



ANH(M)X 11

(unit: mm)

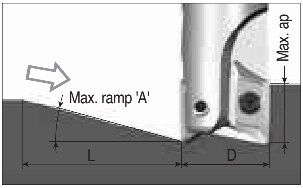
Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø25	1.5	11.0	420	30		0.3
					50	1.7
Ø26	1.4	11.0	450	32		0.4
					52	1.7
Ø32	1.1	11.0	573	44		0.6
					64	1.6
Ø33	1.0	11.0	631	46		0.6
					66	1.5
Ø40	0.8	11.0	788	60		0.7
					80	1.5
Ø50	0.6	11.0	1051	80		0.8
					100	1.4
Ø63	0.4	11.0	1576	106		0.8
					126	1.2
Ø80	0.3	11.0	2102	140		0.8
					160	1.1
Ø100	0.2	11.0	3153	180		0.7
					200	0.9
Ø125	0.2	11.0	3153	230		1.0
					250	1.2

ANH(M)X 16

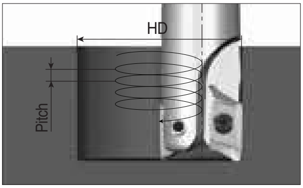
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø32	1.2	15.0	716	44		0.7
					64	1.8
Ø33	1.0	15.0	560	46		0.6
					66	1.5
Ø40	0.9	15.0	955	60		0.8
					80	1.7
Ø50	0.8	15.0	1075	80		1.1
					100	1.9
Ø63	0.6	15.0	1433	106		1.2
					126	1.8
Ø80	0.45	15.0	1911	140		1.3
					160	1.7
Ø100	0.35	15.0	2457	180		1.3
					200	1.6
Ø125	0.25	15.0	3439	230		1.2
					250	1.5
Ø160	0.15	15.0	5732	300		1.0
					320	1.1
Ø200	0.1	15.0	8599	380		0.8
					400	0.9

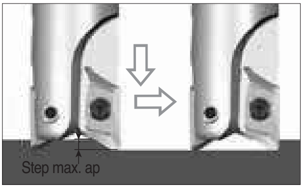
Straight ramping



Helical ramping



Step down



XEVT 16: 0.4R-1.6R

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø25	23.5	16	37	29.1		4.8	4
					50	13.6	4
Ø32	14.5	16	62	43.1		7.7	4
					64	13.6	4
Ø40	10.0	16	91	59.1		9.0	4
					80	13.6	4
Ø50	7.5	16	122	79.1		10.2	4
					100	13.6	4
Ø63	5.5	16	166	105.1		10.8	4
					126	13.6	4
Ø80	4.5	16	203	139.1		12.4	4
					160	13.6	4
Ø100	3.3	16	278	179.1		12.2	4
					200	13.6	4
Ø125	2.5	16	367	229.1		12.1	4
					250	13.6	4
Ø160	1.5	16	611	299.1		9.7	4
					320	11.2	4
Ø200	1.0	16	917	379.1		8.3	4
					400	9.3	4

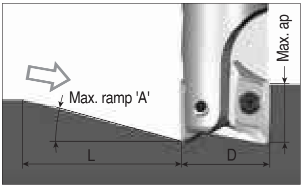
XEVT 16: 2.0R

(unit: mm)

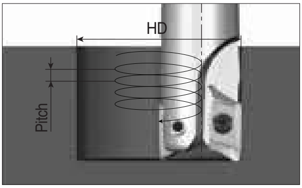
Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø25	23.5	15.5	36	29.1		4.8	3.5
					50	13.2	3.5
Ø32	14.5	15.5	60	43.1		7.7	3.5
					64	13.2	3.5
Ø40	10.0	15.5	88	59.1		9.0	3.5
					80	13.2	3.5
Ø50	7.5	15.5	118	79.1		10.2	3.5
					100	13.2	3.5
Ø63	5.5	15.5	161	105.1		10.8	3.5
					126	13.2	3.5
Ø80	4.5	15.5	197	139.1		12.4	3.5
					160	13.2	3.5
Ø100	3.3	15.5	269	179.1		12.2	3.5
					200	13.2	3.5
Ø125	2.5	15.5	355	229.1		12.1	3.5
					250	13.2	3.5
Ø160	1.5	15.5	592	299.1		9.7	3.5
					320	11.2	3.5
Ø200	1.0	15.5	888	379.1		8.3	3.5
					400	9.3	3.5

Ramping Data

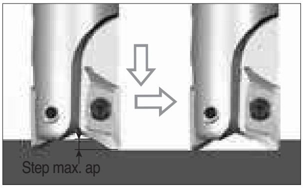
Straight ramping



Helical ramping



Step down



XEVT 16: 3.0R-3.2R

(unit: mm)

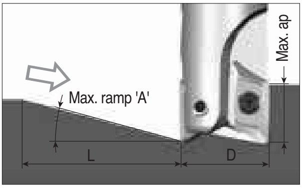
Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø25	22.5	14.5	35	29.1		4.5	2.8
					50	12.3	2.8
Ø32	13.5	14.5	60	43.1		7.1	2.8
					64	12.3	2.8
Ø40	9.0	14.5	92	59.1		8.1	2.8
					80	12.3	2.8
Ø50	6.5	14.5	127	79.1		8.8	2.8
					100	12.3	2.8
Ø63	5.0	14.5	166	105.1		9.8	2.8
					126	12.3	2.8
Ø80	4.0	14.5	207	139.1		11.0	2.8
					160	12.3	2.8
Ø100	3.0	14.5	277	179.1		11.1	2.8
					200	12.3	2.8
Ø125	2.0	14.5	415	229.1		9.7	2.8
					250	11.6	2.8
Ø160	1.1	14.5	756	299.1		7.1	2.8
					320	8.2	2.8
Ø200	0.8	14.5	1039	379.1		6.7	2.8
					400	7.4	2.8

XEVT 16: 4.0R-5.0R

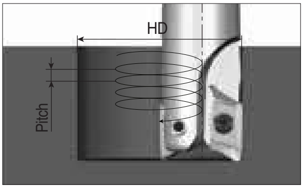
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø25	20.0	14.5	40	29.1		4.0	2.4
					50	12.3	2.4
Ø32	12.0	14.5	68	43.1		6.3	2.4
					64	12.3	2.4
Ø40	7.5	14.5	110	59.1		6.7	2.4
					80	12.3	2.4
Ø50	5.5	14.5	151	79.1		7.5	2.4
					100	12.3	2.4
Ø63	4.5	14.5	184	105.1		8.8	2.4
					126	12.3	2.4
Ø80	3.5	14.5	237	139.1		9.6	2.4
					160	12.3	2.4
Ø100	3.0	14.5	277	179.1		11.1	2.4
					200	12.3	2.4
Ø125	2.0	14.5	415	229.1		9.7	2.4
					250	11.6	2.4
Ø160	1.0	14.5	831	299.1		6.5	2.4
					320	7.5	2.4
Ø200	0.7	14.5	1187	379.1		5.8	2.4
					400	6.5	2.4

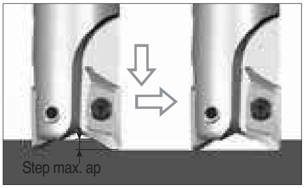
Straight ramping



Helical ramping



Step down



XEVT 22: 0.5R-0.8R

(unit: mm)

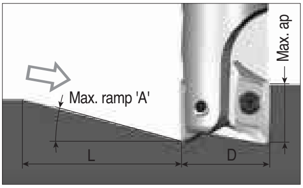
Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø32	20.0	21	58	38.5		6.3	4.7
					64	17.9	4.7
Ø40	14.0	21	84	54.5		9.6	4.7
					80	17.9	4.7
Ø50	9.5	21	126	74.5		10.9	4.7
					100	17.9	4.7
Ø63	7.0	21	171	100.5		12.3	4.7
					126	17.9	4.7
Ø80	5.0	21	240	134.5		12.7	4.7
					160	17.9	4.7
Ø100	3.7	21	325	174.5		12.9	4.7
					200	17.3	4.7
Ø125	2.6	21	463	224.5		12.1	4.7
					250	15.1	4.7
Ø200	1.6	21	752	374.5		13.0	4.7
					400	14.9	4.7

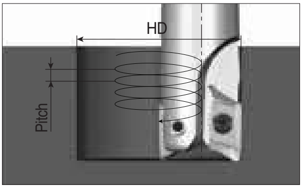
XEVT 22: 1.6R-2.0R

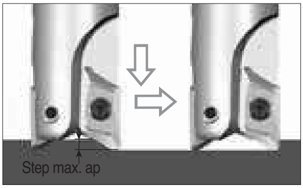
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø32	19.5	20.3	57	38.5		6.1	4.2
					64	17.3	4.2
Ø40	13.5	20.3	85	54.5		9.3	4.2
					80	17.3	4.2
Ø50	9.5	20.3	121	74.5		10.9	4.2
					100	17.3	4.2
Ø63	6.7	20.3	173	100.5		11.8	4.2
					126	17.3	4.2
Ø80	4.7	20.3	247	134.5		12.0	4.2
					160	17.3	4.2
Ø100	3.5	20.3	332	174.5		12.2	4.2
					200	16.3	4.2
Ø125	2.5	20.3	465	224.5		11.6	4.2
					250	14.6	4.2
Ø200	1.5	20.3	776	374.5		12.2	4.2
					400	14.0	4.2

Straight ramping	Helical ramping	Step down







XEVT 22: 3.0R-4.0R

(unit: mm)

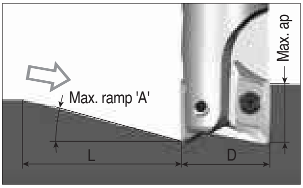
Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø32	18.5	19.5	58	38.5		5.8	3.3
					64	16.6	3.3
Ø40	12.5	19.5	88	54.5		8.6	3.3
					80	16.6	3.3
Ø50	8.5	19.5	131	74.5		9.8	3.3
					100	16.6	3.3
Ø63	5.5	19.5	203	100.5		9.6	3.3
					126	16.2	3.3
Ø80	4.0	19.5	279	134.5		10.2	3.3
					160	14.9	3.3
Ø100	3.0	19.5	372	174.5		10.4	3.3
					200	14.0	3.3
Ø125	2.0	19.5	559	224.5		9.3	3.3
					250	11.6	3.3
Ø200	1.0	19.5	1118	374.5		8.1	3.3
					400	9.3	3.3

XEVT 22: 5.0R

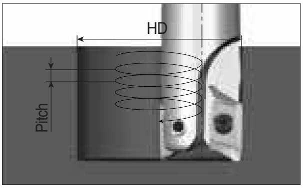
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø32	17.5	19	60	38.5		5.5	2.8
					64	16.2	2.8
Ø40	11.5	19	93	54.5		7.9	2.8
					80	16.2	2.8
Ø50	7.5	19	144	74.5		8.6	2.8
					100	16.2	2.8
Ø63	5.0	19	217	100.5		8.8	2.8
					126	14.7	2.8
Ø80	3.5	19	311	134.5		8.9	2.8
					160	13.1	2.8
Ø100	2.5	19	435	174.5		8.7	2.8
					200	11.6	2.8
Ø125	1.7	19	641	224.5		7.9	2.8
					250	9.9	2.8
Ø200	0.8	19	1361	374.5		6.5	2.8
					400	7.4	2.8

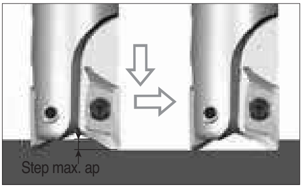
Straight ramping



Helical ramping



Step down

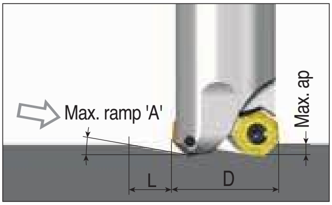


XEVT 22: 6.4R

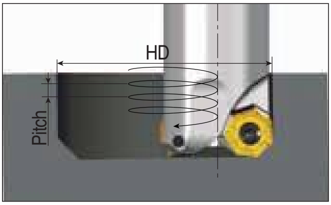
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø32	16	18.2	64	38.5		5.0	2.1
					64	15.5	2.1
Ø40	10	18.2	103	54.5		6.8	2.1
					80	15.5	2.1
Ø50	6.5	18.2	160	74.5		7.4	2.1
					100	15.2	2.1
Ø63	4.5	18.2	231	100.5		7.9	2.1
					126	13.2	2.1
Ø80	3.0	18.2	347	134.5		7.6	2.1
					160	11.2	2.1
Ø100	2.0	18.2	521	174.5		6.9	2.1
					200	9.3	2.1
Ø125	1.5	18.2	695	224.5		7.0	2.1
					250	8.7	2.1
Ø200	0.7	18.2	1490	374.5		5.7	2.1
					400	6.5	2.1

Straight ramping



Helical ramping

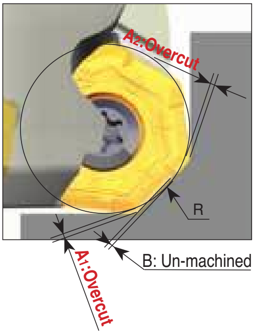


7EMT 06

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø32	29	3.2	6	45.5		3.2
					64	3.2
Ø40	15.5	3.2	12	61.5		3.2
					80	3.2
Ø50	9.5	3.2	19	81.5		3.2
					100	3.2
Ø63	5.5	3.2	33	107.5		3.2
					126	3.2
Ø80	4.0	3.2	46	141.5		3.2
					160	3.2
Ø100	3.0	3.2	61	181.5		3.2
					200	3.2
Ø125	2.0	2.3	66	231.5		3.2
					250	3.2

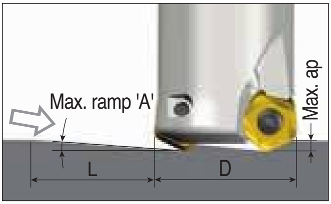
Programming technical data

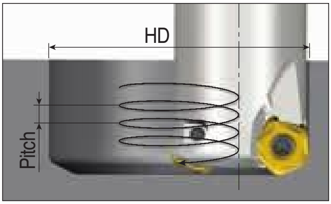


	R Program	A Over cut		B Un-machined
		A_1	A_2	B
7EMT 06	3	0	0	1.77
	4.5	0	0	1.51
	5	0.03	0.02	0.94
	6	0.21	0.19	0.53

:Recommended program 'R'

Ramping Data



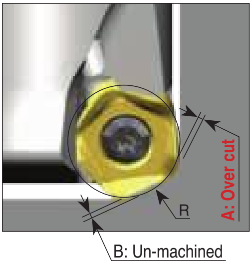


PTKU 05

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø20	1.3	1.5	66	33		0.7
					40	0.9
Ø25	1.1	1.5	78	43		0.8
					50	1.0
Ø26	1.0	1.5	86	45		0.8
					52	0.9
Ø32	1.0	1.5	86	57		1.0
					64	1.1
Ø33	1.0	1.5	86	59		1.0
					66	1.2
Ø40	0.8	1.5	101	73		1.1
					80	1.2
Ø50	0.7	1.5	123	93		1.1
					100	1.2
Ø52	0.7	1.5	123	97		1.2
					104	1.3
Ø63	0.6	1.5	132	119		1.3
					126	1.4
Ø66	0.6	1.5	143	125		1.3
					132	1.4

Programming technical data

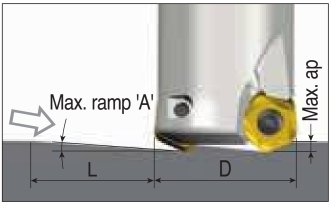


	R Program	A Over cut	B Un-machined
PTKU 05	2.5	0.00	0.83
	2.7	0.00	0.76
	3.0	0.04	0.66

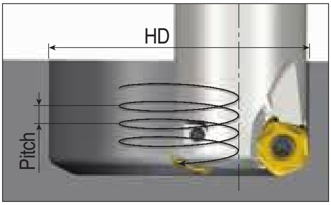
: Recommended program 'R'

Ramping Data

Straight ramping



Helical ramping

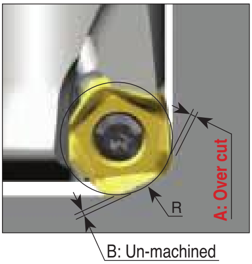


PTKU 10

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø40	1.5	3.0	111	63		1.7
					80	2.2
Ø50	1.9	3.0	88	83		2.8
					100	3.0
Ø63	1.7	3.0	101	109		3.0
					126	3.0
Ø66	2.2	3.0	78	115		3.0
					132	3.0
Ø80	1.5	3.0	115	143		3.0
					160	3.0
Ø100	1.1	3.0	150	183		3.0
					200	3.0
Ø125	0.8	3.0	202	233		3.0
					250	3.0
Ø160	0.6	3.0	265	303		3.0
					320	3.0
Ø200	0.5	3.0	344	383		3.0
					400	3.0

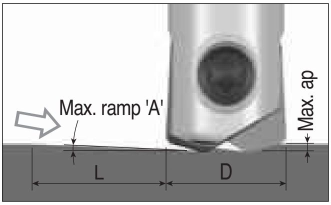
Programming technical data



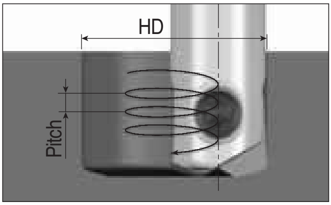
	R Program	A Over cut	B Un-machined
PTKU 10	5.5	0.00	1.45
	6.0	0.09	1.28
	6.5	0.21	1.11

: Recommended program 'R'

Straight ramping



Helical ramping

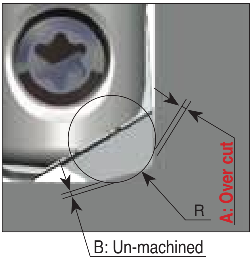


HFN

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø6	2.0	0.3	9	9.6		0.3
					11	0.3
Ø8	2.5	0.5	11	12		0.5
					15	0.5

Programming technical data

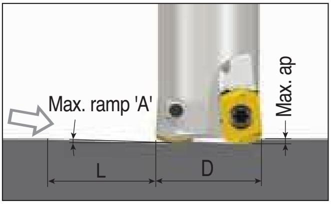


	R Program	A Over cut	B Un-machined
HFN 060	0.8	0.00	0.21
	1.0	0.03	0.16
HFN 080	0.8	0.00	0.38
	1.0	0.00	0.32
	1.2	0.02	0.27

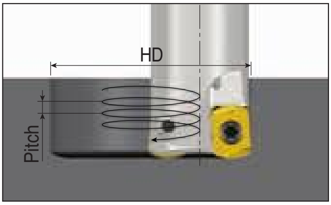
: Recommended program 'R'

Ramping Data

Straight ramping



Helical ramping

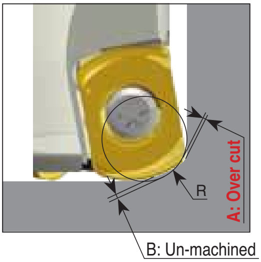


BLMP 04

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø8	0.4	0.5	72	12.6		0.1
					16	0.1
Ø10	0.6	0.5	44	16.6		0.2
					20	0.2
Ø11	0.7	0.5	38	18.6		0.2
					22	0.3
Ø12	1.0	0.5	29	20.6		0.4
					24	0.4
Ø13	1.1	0.5	25	22.6		0.5
					26	0.5
Ø16	1.0	0.5	29	28.6		0.5
					32	0.5
Ø17	1.1	0.5	26	30.6		0.5
					34	0.5
Ø20	1.0	0.5	27	36.6		0.5
					40	0.5
Ø21	0.7	0.5	38	38.6		0.5
					42	0.5
Ø25	0.7	0.5	38	46.6		0.5
					50	0.5
Ø32	0.6	0.5	48	60.6		0.5
					64	0.5

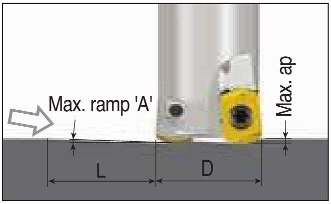
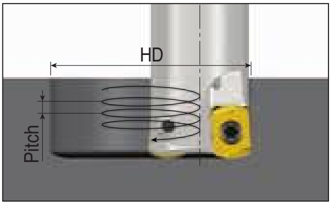
Programming technical data



	R Program	A Over cut	B Un-machined
BLMP 04	0.8	0.00	0.28
	0.9	0.00	0.25
	1.0	0.08	0.22

: Recommended program 'R'

Ramping Data

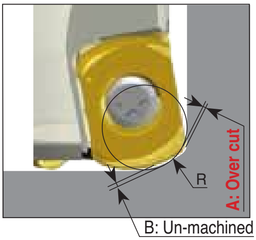
Straight ramping	Helical ramping
	

BLMP 06

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø16	2.0	0.7	13	23		0.7
					32	0.7
Ø17	2.0	0.7	15	25		0.7
					34	0.7
Ø18	2.3	0.7	16	27		0.7
					36	0.7
Ø20	1.5	1.0	38	31		0.8
					40	1.0
Ø21	1.5	1.0	38	33		0.8
					42	1.0
Ø22	1.5	1.0	38	35		1.0
					44	1.0
Ø25	1.3	1.0	41	41		1.0
					50	1.0
Ø26	1.2	1.0	44	43		1.0
					52	1.0
Ø30	1.0	1.0	52	51		1.0
					60	1.0
Ø32	0.9	1.0	57	55		1.0
					64	1.0
Ø33	0.9	1.0	57	57		1.0
					66	1.0
Ø35	0.8	1.0	57	61		1.0
					70	1.0
Ø40	0.7	1.0	64	71		1.0
					80	1.0
Ø42	0.7	1.0	72	75		1.0
					84	1.0
Ø50	0.6	1.0	96	91		1.0
					100	1.0
Ø52	0.6	1.0	96	95		1.0
					104	1.0
Ø63	0.5	1.0	115	117		1.0
					126	1.0
Ø66	0.5	1.0	115	123		1.0
					132	1.0

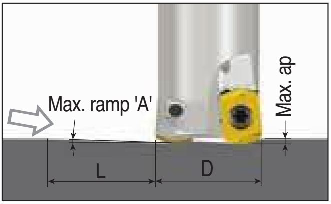
Programming technical data

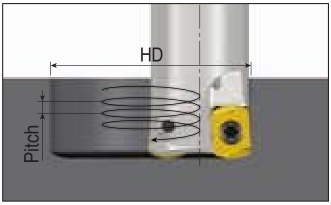


	R Program	A Over cut	B Un-machined
BLMP 06 (Ø16, Ø17, Ø18)	1.5	0	0.35
	2.0	0.1	0.22
	2.5	0.27	0.1
BLMP 06 (Ø20-)	2.0	0	0.42
	2.5	0.12	0.26
	3.0	0.29	0.17

: Recommended program 'R'

Straight ramping	Helical ramping



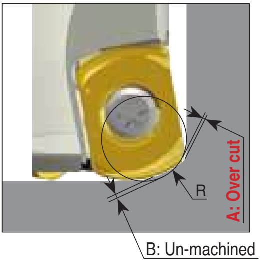


BLMP 09

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø25	2.2	1.5	39	42		1.5
					50	1.5
Ø26	2.2	1.5	39	44		1.5
					52	1.5
Ø30	2.0	1.5	43	52		1.5
					60	1.5
Ø32	2.0	1.5	43	56		1.5
					64	1.5
Ø33	2.0	1.5	43	58		1.5
					66	1.5
Ø35	2.0	1.5	43	60		1.5
					70	1.5
Ø40	1.5	1.5	57	72		1.5
					80	1.5
Ø42	1.5	1.5	57	76		1.5
					84	1.5
Ø50	1.0	1.5	86	92		1.5
					100	1.5
Ø52	1.0	1.5	86	96		1.5
					104	1.5
Ø63	0.9	1.5	96	118		1.5
					126	1.5
Ø66	0.9	1.5	96	124		1.5
					132	1.5
Ø80	0.8	1.5	107	152		1.5
					160	1.5
Ø100	0.7	1.5	123	192		1.5
					200	1.5
Ø125	0.4	1.5	215	240		1.5
					250	1.5

Programming technical data

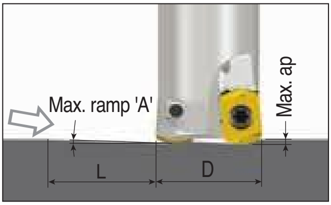


	R Program	A Over cut	B Un-machined
BLMP 09	2.5	0	0.61
	3.0	0.09	0.45
	3.5	0.24	0.30
	4.0	0.41	0.17
	3.0	0.36	0.04

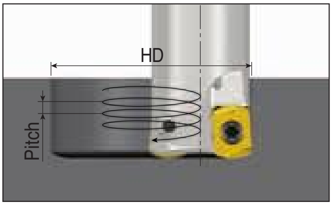
: Recommended program 'R'

Ramping Data

Straight ramping



Helical ramping

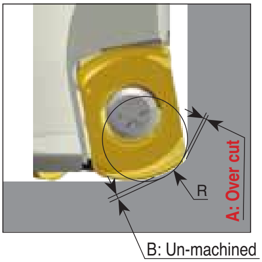


BLMP 11

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø30	0.50	2.0	229	41		0.3
					60	0.7
Ø32	0.50	2.0	229	45		0.3
					64	0.7
Ø33	0.45	2.0	255	47		0.3
					66	0.7
Ø35	0.50	2.0	229	51		0.4
					70	0.8
Ø40	0.55	2.0	208	61		0.5
					80	1.0
Ø42	0.50	2.0	229	65		0.5
					84	1.0
Ø50	0.50	2.0	229	81		0.7
					100	1.2
Ø52	0.45	2.0	255	85		0.7
					104	1.1
Ø63	0.45	2.0	255	107		0.9
					126	1.3
Ø66	0.40	2.0	287	113		0.9
					132	1.2
Ø80	0.35	2.0	328	141		1.0
					160	1.3
Ø100	0.30	2.0	382	181		1.1
					200	1.4
Ø125	0.25	2.0	459	231		1.2
					250	1.5
Ø160	0.20	2.0	573	301		1.3
					320	1.5
Ø200	0.15	2.0	764	381		1.3
					400	1.4

Programming technical data

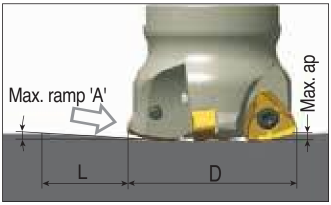


	R Program	A Over cut	B Un-machined
BLMP 11	2.4	0.00	1.09
	3.0	0.00	0.90
	3.2	0.18	0.85

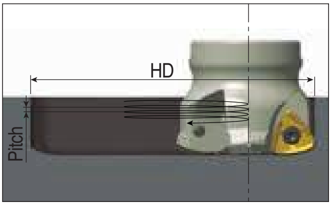
: Recommended program 'R'

Ramping Data

Straight ramping



Helical ramping

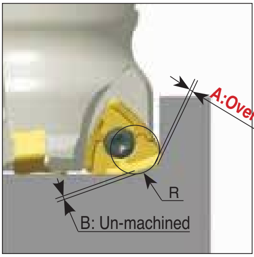


BLMP 13

(unit: mm)

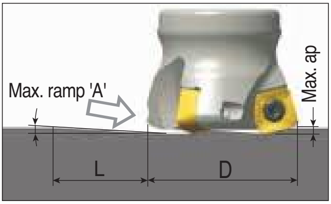
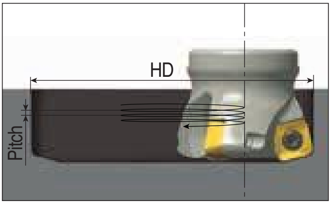
Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø32	0.8	2.0	143	50		0.7
					64	0.9
Ø33	1.1	2.0	104	52		1.0
					66	1.3
Ø35	1.1	2.0	104	56		1.1
					70	1.3
Ø40	1.2	2.0	96	66		1.4
					80	1.7
Ø42	1.1	2.0	104	70		1.3
					84	1.6
Ø50	0.8	2.0	143	86		1.2
					100	1.4
Ø52	0.8	2.0	143	90		1.3
					104	1.5
Ø63	0.6	2.0	191	112		1.2
					126	1.3
Ø66	0.6	2.0	191	118		1.2
					132	1.4
Ø80	0.5	2.0	229	146		1.3
					160	1.4
Ø100	0.4	2.0	287	186		1.3
					200	1.4
Ø125	0.3	2.0	382	236		1.2
					250	1.3
Ø160	0.3	2.0	382	306		1.6
					320	1.7
Ø200	0.2	2.0	573	386		1.3
					400	1.4
Ø250	0.2	2.0	573	486		1.7
					500	1.7

Programming technical data



	R Program	A Over cut	B Un-machined
BLMP 13	3.0	0	1.31
	3.5	0	1.17
	4.0	0.04	1.03
	4.5	0.15	0.89
	5.0	0.3	0.76

: Recommended program 'R'

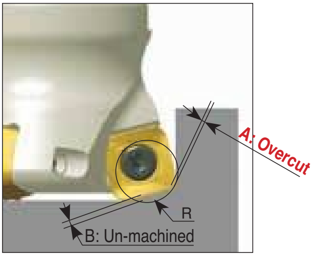
Straight ramping	Helical ramping
	

SBMT 09

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø25	1.6	1.2	43	36		1
					50	1.2
Ø26	1.7	1.2	40	38		1.1
					52	1.2
Ø30	3.1	1.2	22	46		1.2
					60	1.2
Ø32	3.9	1.2	18	50		1.2
					64	1.2
Ø33	3.7	1.2	19	52		1.2
					66	1.2
Ø35	3.4	1.2	18	56		1.2
					70	1.2
Ø40	2.8	1.2	25	66		1.2
					80	1.2
Ø42	2.6	1.2	26	70		1.2
					84	1.2
Ø50	2	1.2	34	86		1.2
					100	1.2
Ø52	1.9	1.2	38	90		1.2
					104	1.2
Ø63	1.5	1.2	43	112		1.2
					126	1.2
Ø66	1.1	1.2	63	118		1.2
					132	1.2
Ø80	1.2	1.2	63	146		1.2
					160	1.2

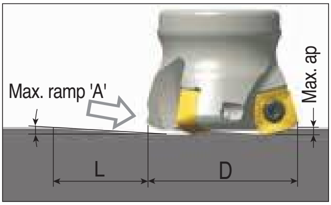
Programming technical data



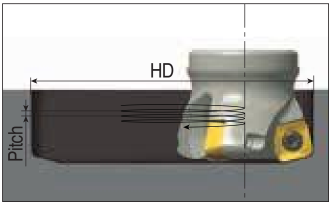
	R Program	A Over cut	B Un-machined
SBMT 09	3.5	0.1	0.81
	3	0	0.9
	2.5	0	0.98
	2	0	1.1

:Recommended program 'R'

Straight ramping



Helical ramping

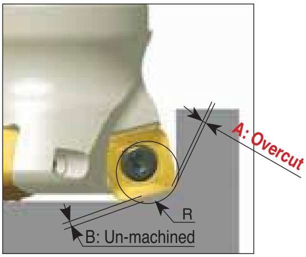


SBMT 13

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø32	7.0	2.0	16	47		2.0
					64	2.0
Ø33	6.9	2.0	17	49		2.0
					66	2.0
Ø35	6.4	2.0	18	53		2.0
					70	2.0
Ø40	5.3	2.0	22	63		2.0
					80	2.0
Ø42	4.4	2.0	26	67		2.0
					84	2.0
Ø50	4.3	2.0	27	83		2.0
					100	2.0
Ø52	4.0	2.0	29	87		2.0
					104	2.0
Ø63	2.9	2.0	40	109		2.0
					126	2.0
Ø80	2.0	2.0	57	143		2.0
					160	2.0
Ø100	1.5	2.0	76	183		2.0
					200	2.0
Ø125	1.1	2.0	104	233		2.0
					250	2.0
Ø160	0.8	2.0	104	303		2.0
					320	2.0
Ø200	0.6	2.0	127	383		2.0
					400	2.0
Ø250	0.5	2.0	164	483		2.0
					500	2.0

Programming technical data

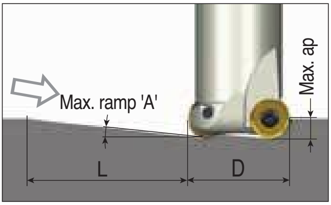


	R Program	A Over cut	B Un-machined
SBMT 13	4.0	0	1.62
	4.5	0	1.51
	5.0	0.04	1.4
	5.5	0.14	1.29
	6.0	0.28	1.18

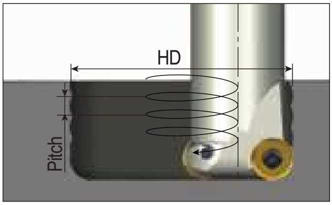
:Recommended program 'R'

Ramping Data

Straight ramping



Helical ramping



RNMU 10

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø25	1.1	5.0	261	33		0.4
					50	1.3
Ø26	1.1	5.0	261	35		0.5
					52	1.3
Ø32	0.9	5.0	318	47		0.6
					64	1.3
Ø33	0.9	5.0	318	49		0.7
					66	1.4
Ø40	0.9	5.0	318	63		1.0
					80	1.7
Ø42	0.9	5.0	318	67		1.0
					84	1.8
Ø50	0.7	5.0	409	83		1.1
					100	1.6
Ø52	0.8	5.0	358	87		1.3
					104	1.9

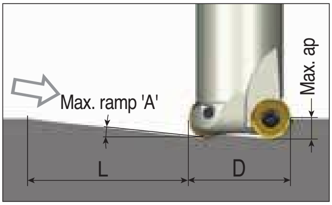
RNMU 12

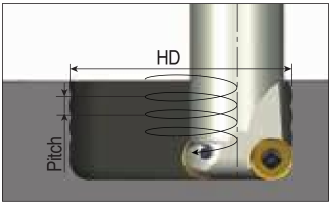
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø32	1.4	6.0	246	42		0.7
					64	2.1
Ø33	1.4	6.0	246	44		0.7
					66	2.2
Ø40	1.3	6.0	265	58		1.1
					80	2.4
Ø50	1.0	6.0	344	78		1.3
					100	2.3
Ø52	1.0	6.0	344	82		1.4
					104	2.4
Ø63	1.0	6.0	344	104		1.9
					126	2.9
Ø66	1.0	6.0	344	110		2.0
					132	3.1
Ø80	0.9	6.0	382	138		2.4
					160	3.4
Ø100	0.7	6.0	491	178		2.5
					200	3.3

Ramping Data

Straight ramping	Helical ramping





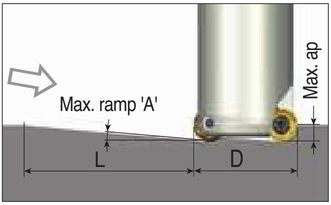
RNMU 16

(unit: mm)

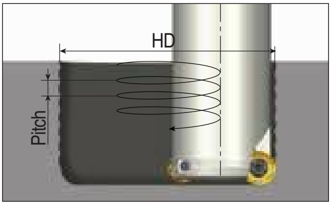
Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø40	1.4	8.0	328	52		0.8
					80	2.6
Ø42	1.4	8.0	328	56		0.9
					84	2.7
Ø50	1.3	8.0	353	72		1.3
					100	3.0
Ø52	1.0	8.0	459	76		1.1
					104	2.4
Ø63	1.0	8.0	459	98		1.6
					126	2.9
Ø66	1.0	8.0	459	104		1.8
					132	3.1
Ø80	1.0	8.0	459	132		2.4
					160	3.7
Ø100	0.9	8.0	510	172		3.0
					200	4.2
Ø125	0.9	8.0	510	222		4.1
					250	5.2

Ramping Data

Straight ramping



Helical ramping



RDMX-05

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø8	7	2.5	20	8.5		0.2
					16	2.1
Ø10	14	2.5	10	12		1.3
					20	2.1
Ø12	9	2.5	16	16		1.7
					24	2.1

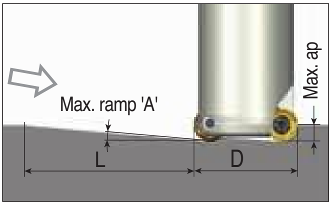
RDMX-07

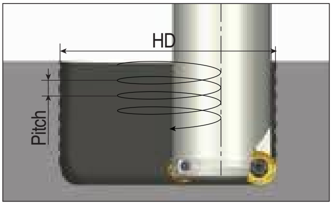
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø15	17	3.5	11	18		2.4
					30	3.0
Ø16	15	3.5	13	20		2.9
					32	3.0
Ø17	14.5	3.5	14	22		1.6
					34	3.4
Ø20	14	3.5	14	28		3.0
					40	3.0
Ø25	8	3.5	25	38		3.0
					50	3.0
Ø30	5	3.5	40	48		3.0
					60	3.0
Ø32	5	3.5	40	52		3.0
					64	3.0

Ramping Data

Straight ramping	Helical ramping





RXM(H)X-10

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø20	20	5.0	14	22		1.9
					40	4.3
Ø25	15	5.0	19	32		5.0
					50	4.3
Ø32	12	5.0	24	46		1.6
					64	4.3
Ø42	8	5.0	36	66		4.3
					84	4.3
Ø50	6.5	5.0	44	82		4.3
					100	4.3
Ø52	6	5.0	48	86		4.3
					104	4.3

RXM(H)X-12

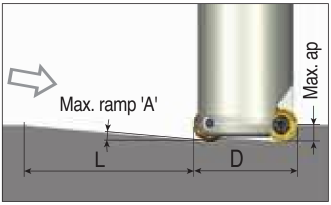
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø25	20	6.0	16	28		2.9
					50	5.1
Ø32	15	6.0	22	42		5.1
					64	5.1
Ø35	8	6.0	43	48		4.9
					70	5.1
Ø40	15	6.0	22	58		5.1
					80	5.1
Ø42	7.5	6.0	46	62		5.1
					84	5.1
Ø50	7.5	6.0	46	78		5.1
					100	5.1
Ø52	6	6.0	57	82		5.1
					104	5.1
Ø63	5	6.0	69	104		5.1
					126	5.1
Ø66	5	6.0	69	110		5.1
					132	5.1
Ø80	4	6.0	86	138		5.1
					160	5.1
Ø100	2	6.0	172	178		5.1
					200	5.1
Ø125	2	6.0	172	228		5.1
					250	5.1

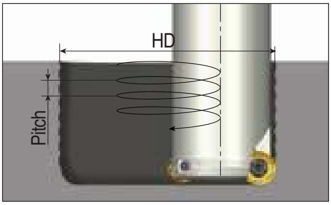
Ramping Data

CHASEMOLD

Straight ramping



Helical ramping



RXMX-16

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø32	20	8.0	22	34		1.9
					64	6.8
Ø40	15	8.0	30	50		7.1
					80	6.8
Ø42	14	8.0	32	54		8.0
					84	6.8
Ø50	13	8.0	35	70		6.8
					100	6.8
Ø52	10	8.0	45	74		6.8
					104	6.8
Ø80	6	8.0	76	130		6.8
					160	6.8
Ø100	4	8.0	114	170		6.8
					200	6.8
Ø125	3.5	8.0	131	220		6.8
					250	6.8

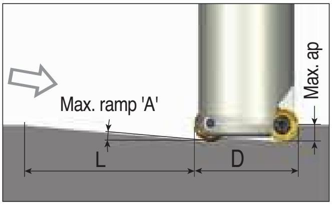
RXMX-20

(unit: mm)

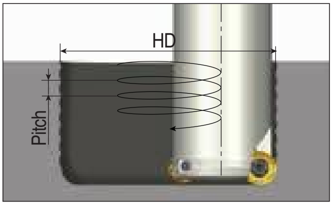
Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø50	16	10.0	35	62		9.2
					100	8.5
Ø63	11.5	10.0	49	88		8.5
					126	8.5
Ø80	9	10.0	63	122		8.5
					160	8.5
Ø100	7.5	10.0	76	162		8.5
					200	8.5
Ø125	5.5	10.0	104	212		8.5
					250	8.5
Ø160	4	10.0	143	282		8.5
					320	8.5

Ramping Data

Straight ramping



Helical ramping



RYM(H)X-08

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø16	2.5	4.0	92	18		0.2
					32	1.9
Ø17	2.5	4.0	92	20		0.3
					34	2.0
Ø18	2.5	4.0	92	22		0.5
					36	2.1
Ø20	4.0	4.0	57	26		1.1
					40	3.4
Ø21	4.0	4.0	57	28		1.3
					42	3.4
Ø25	4.0	4.0	57	36		2.1
					50	3.4
Ø26	4.0	4.0	57	38		2.2
					52	3.4
Ø32	4.0	4.0	57	50		3.4
					64	3.4
Ø40	7.0	4.0	33	66		3.4
					80	3.4

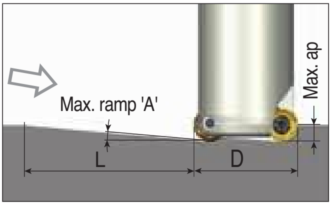
RYMX-10

(unit: mm)

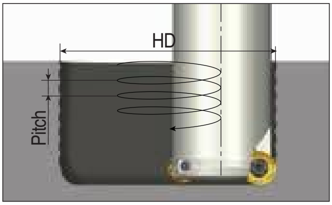
Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø20	4.5	5.0	64	22		0.4
					40	4.2
Ø21	4.5	5.0	64	24		0.6
					42	4.4
Ø25	5.0	5.0	57	32		1.6
					50	4.3
Ø26	5.0	5.0	57	34		1.9
					52	4.3
Ø32	5.0	5.0	57	46		3.3
					64	4.3
Ø35	5.0	5.0	57	52		4.0
					70	4.3
Ø40	5.0	5.0	57	62		4.3
					80	4.3
Ø42	5.0	5.0	57	66		4.3
					84	4.3
Ø50	6.5	5.0	44	82		4.3
					100	4.3
Ø52	6.0	5.0	48	86		4.3
					104	4.3
Ø66	4.5	5.0	64	114		4.3
					132	4.3

Ramping Data

Straight ramping



Helical ramping

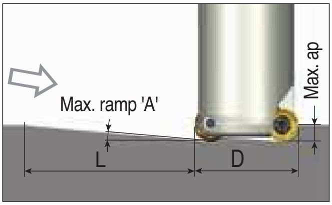


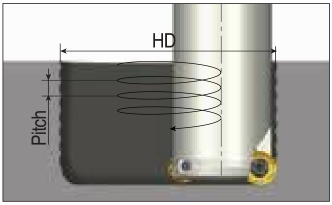
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø25	6.0	6.0	57	28		0.8
					50	5.1
Ø26	6.0	6.0	57	30		1.1
					52	5.1
Ø32	12.0	6.0	28	42		5.1
					64	5.1
Ø33	12.0	6.0	28	44		5.1
					66	5.1
Ø35	12.0	6.0	28	48		5.1
					70	5.1
Ø40	10.0	6.0	34	58		5.1
					80	5.1
Ø42	12.0	6.0	28	62		5.1
					84	5.1
Ø50	9.0	6.0	38	78		5.1
					100	5.1
Ø52	8.0	6.0	43	82		5.1
					104	5.1
Ø55	8.0	6.0	43	88		5.1
					110	5.1
Ø63	7.0	6.0	49	104		5.1
					126	5.1
Ø66	6.5	6.0	53	110		5.1
					132	5.1
Ø80	4.5	6.0	76	138		5.1
					160	5.1
Ø100	3.5	6.0	98	178		5.1
					200	5.1
Ø125	2.5	6.0	137	228		5.1
					250	5.1

Ramping Data

Straight ramping	Helical ramping





RYMX-16

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø32	8.0	8.0	57	34		0.7
					64	6.8
Ø40	9.5	8.0	48	50		4.5
					80	6.8
Ø42	9.0	8.0	51	54		5.1
					84	6.8
Ø50	9.0	8.0	51	70		6.8
					100	6.8
Ø52	9.0	8.0	51	74		6.8
					104	6.8
Ø63	8.5	8.0	54	96		6.8
					126	6.8
Ø66	8.5	8.0	54	102		6.8
					132	6.8
Ø80	6.0	8.0	76	130		6.8
					160	6.8
Ø100	5.0	8.0	91	170		6.8
					200	6.8
Ø125	3.5	8.0	131	220		6.8
					250	6.8
Ø160	3.5	8.0	131	290		6.8
					320	6.8

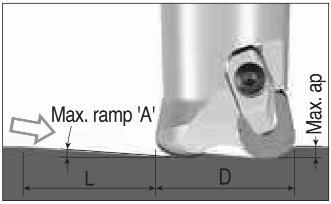
RYMX-20

(unit: mm)

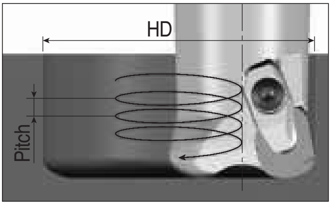
Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø50	8.0	10.0	71	62		4.5
					100	8.5
Ø63	12.5	10.0	45	88		8.5
					126	8.5
Ø80	8.5	10.0	67	122		8.5
					160	8.5
Ø100	6.5	10.0	88	162		8.5
					200	8.5
Ø125	4.5	10.0	127	212		8.5
					250	8.5
Ø160	4.0	10.0	143	282		8.5
					320	8.5
Ø200	2.5	10.0	229	362		8.5
					400	8.5
Ø250	2.4	10.0	239	462		8.5
					500	8.5

Ramping Data

Straight ramping



Helical ramping

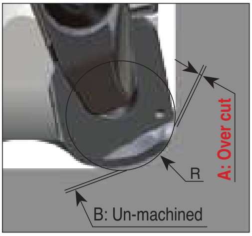


BNGX 09

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø25	1.2	1.5	55	39		0.9
					50	1.1
Ø32	0.6	1.5	132	53		0.6
					64	0.7
Ø40	0.6	1.5	143	69		0.7
					80	0.8
Ø50	0.5	1.5	156	89		0.9
					100	1.0

Programming technical data

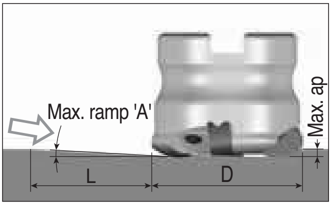


	R Program	A Over cut	B Un-machined
BNGX 09	3.0	0.00	0.61
	3.4	0.00	0.46
	3.5	0.01	0.43
	4.0	0.12	0.26

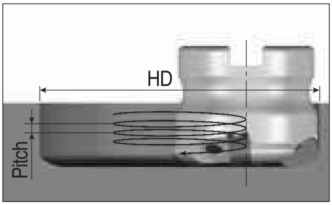
: Recommended program 'R'

Ramping Data

Straight ramping



Helical ramping

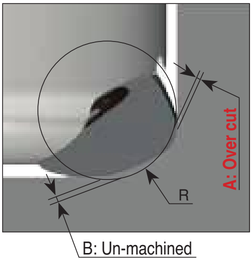


BNGX 12

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø50	0.6	2.5	239	84		1.1
					100	1.0
Ø63	0.5	2.5	287	110		1.1
					126	1.1
Ø80	0.4	2.5	318	144		1.3
					160	1.3

Programming technical data



	R Program	A Over cut	B Un-machined
BNGX 12	4.0	0.00	1.18
	4.5	0.00	1.00
	5.0	0.03	0.84

: Recommended program 'R'