

New Products 2018

Metric Version 3 - 2018

LOGIQ *Become a Master*
ISCAR CHESS LINES *Smarter Cutting Tools are Coming*



MACHINING INTELLIGENTLY D U S T R Y 4 . 0

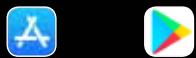
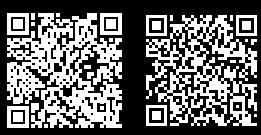
Mobile Apps



ISCAR Tool Advisor
Find the best tool & conditions



ISCAR Cutting Info.
Machining Parameters Direct Access



ISCAR World
Catalog Apps for Mobile Devices



ISCAR Productivity Geometries
Upgrade Your Current Tool



Become an
INDUSTRY 4.0



ISCAR's Easy to Use Digital World of Applications

Web Apps

MASTER!



ITA
ISCAR Tools
Advisor



Industrealize
Metalworking
Applications



E-Cat
Electronic Catalog



MATRIX
Tool Management
System



IQ Cloud
Cloud Based
Tool Assemblies



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LOGIQTURN

ISCAR CHESS LINES



High Productivity



For All
Materials



New Generation



Cost Effective
Insert

MACHINING IN DUSTRY 4.0
TELLIGENTLY



Anti-Vibration Turning Up to 10XD Boring Depth **Whisper Master**



Anti-Vibration Shank for Boring with Exchangeable Boring Heads

Variety of **Exchangeable Turning Heads** for Different Geometries of Turning, Threading and Grooving Inserts



Boring Shaft with Internal Coolant



For All Materials



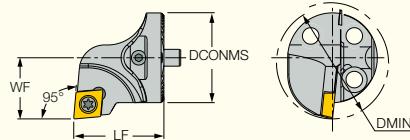
Up to 10xBD Anti-Vibration Shank

LOGIQTURN
ISCAR CHESS LINES

WHISPERLINE
ANTI-VIBRATION

AVC-SCLCR/L

Interchangeable Boring Heads
Carrying 80° Rhombic Inserts with
7° Clearance

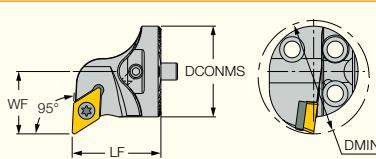


Designation	WF	DCONMS	DMIN	LF
AVC-D16-SCLCR/L-06	11.00	16.00	20.00	20.00
AVC-D20-SCLCR/L-09	13.00	20.00	25.00	20.00
AVC-D25-SCLCR/L-09	17.00	25.00	32.00	22.00
AVC-D32-SCLCR/L-09	22.00	32.00	40.00	32.00
AVC-D40-SCLCR/L-12T	27.00	40.00	50.00	38.00

WHISPERLINE
ANTI-VIBRATION

AVC-SDUCR/L

Interchangeable Boring Heads
Carrying 55° Rhombic Inserts with
7° Clearance

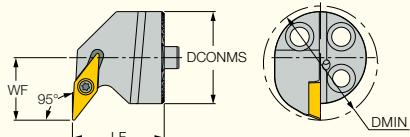


Designation	WF	DCONMS	DMIN	LF
AVC-D16-SDUCR/L-07	11.00	16.00	20.00	20.00
AVC-D20-SDUCR/L-11	13.00	20.00	25.00	20.00
AVC-D25-SDUCR/L-11	17.00	25.00	32.00	20.00
AVC-D32-SDUCR/L-11T	22.00	32.00	40.00	32.00
AVC-D40-SDUCR/L-11T	27.00	40.00	50.00	38.00

WHISPERLINE
ANTI-VIBRATION

AVC-SVUCR/L

Interchangeable Boring Heads
for 35° Rhombic Inserts with
7° Clearance

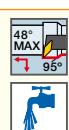
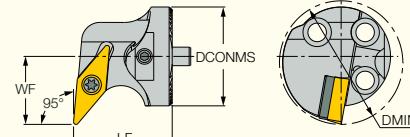


Designation	WF	DCONMS	DMIN	LF
AVC-D20-SVUCR/L-11	16.00	20.00	27.00	20.00
AVC-D25-SVUCR/L-11	17.00	25.00	32.00	25.00

WHISPERLINE
ANTI-VIBRATION

AVC-SVLCR/L

Interchangeable Boring Heads
Carrying 35° Rhombic Inserts with
7° Clearance

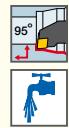
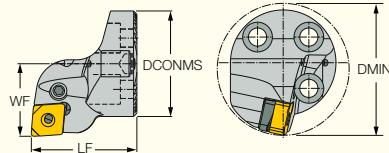


Designation	WF	DCONMS	DMIN	LF
AVC-D32-SVLCR/L-16T	22.00	32.00	40.00	32.00
AVC-D40-SVLCR/L-16T	27.00	40.00	50.00	32.00

WHISPERLINE
ANTI-VIBRATION

AVC-PCLNR/L

Interchangeable Boring Heads for 80° Rhombic Inserts

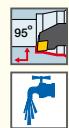
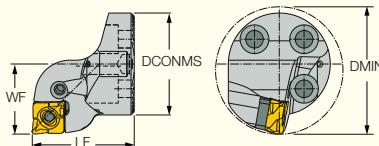


Designation	DCONMS	WF	LF	DMIN							
AVC-D20-PCLNR/L-09	20.00	13.00	20.00	25.00	TCN 323	TCX 3	LR 3	SR 117-2014	HW 2.5	SP 3	PN 3-4
AVC-D25-PCLNR/L-09	25.00	17.00	25.00	32.00	TCN 323	TCX 3	LR 3	SR 117-2014	HW 2.5	SP 3	PN 3-4
AVC-D32-PCLNR/L-09	32.00	22.00	32.00	40.00	TCN 323	TCX 3	LR 3	SR 117-2014	HW 2.5	SP 3	PN 3-4

WHISPERLINE
ANTI-VIBRATION

AVC-PCLXR/L

Interchangeable Boring Heads for 80° Rhombic Inserts

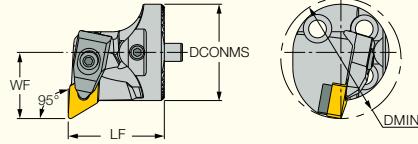


Designation	DCONMS	WF	LF	DMIN							
AVC-D20-PCLXR/L-09X	20.00	13.00	20.00	25.00	TSN 323	LR 3W	SR 117-2014	HW 2.5	SP 3	PN 3-4	
AVC-D25-PCLXR/L-09X	25.00	17.00	25.00	32.00	TSN 323	LR 3W	SR 117-2014	HW 2.5	SP 3	PN 3-4	
AVC-D32-PCLXR/L-09X	32.00	22.00	32.00	40.00	TSN 323	LR 3W	SR 117-2014	HW 2.5	SP 3	PN 3-4	
AVC-D40-PCLXR/L-12X	40.00	27.00	40.00	50.00	TSN 323	LR 3W	SR 117-2014	HW 2.5	SP 3	PN 3-4	

WHISPERLINE
ANTI-VIBRATION

AVC-DDUNR/L

Interchangeable Boring Heads for 55° Rhombic Inserts

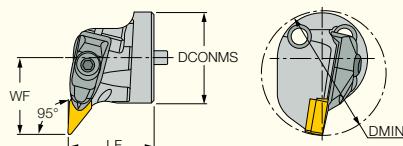


Designation	WF	DCONMS	DMIN	LF
AVC-D32-DDUNR/L-11T	22.00	32.00	40.00	32.00
AVC-D40-DDUNR/L-15T	27.00	40.00	50.00	32.00

WHISPERLINE
ANTI-VIBRATION

AVC-DVUNR/L

Interchangeable Boring Heads for 35° Rhombic Inserts

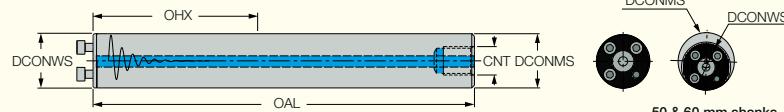


Designation	WF	DCONMS	DMIN	LF
AVC-D40-DVUNR/L-16T	30.00	40.00	52.00	36.00

WHISPERLINE
ANTI-VIBRATION
Straight Shank

AV-D

Anti-Vibration Bars with Through Coolant for Interchangeable Turning Heads



Designation	DCONMS	DCONWS	OAL	OHX ⁽¹⁾	CNT
AV-D16-7D-C	16.00	16.00	156.00	92.0	-
AV-D16-10D-E	16.00	16.00	204.00	140.0	G1/8
AV-D20-7D-C	20.00	20.00	200.00	120.0	-
AV-D20-10D-E	20.00	20.00	260.30	180.0	G1/4
AV-D25-7D-C	25.00	25.00	257.50	155.0	G1/4
AV-D25-10D-C	25.00	25.00	330.00	230.0	G1/4
AV-D32-7D-C	32.00	32.00	323.00	192.0	G3/8
AV-D32-10D-C	32.00	32.00	416.00	288.0	G3/8
AV-D40-7D-C	40.00	40.00	408.00	248.0	G1/2
AV-D40-10D-C	40.00	40.00	528.00	368.0	G1/2
AV-D50-7D-C	50.00	40.00	518.00	318.0	G1/2
AV-D50-10D-C	50.00	40.00	668.00	468.0	G1/2
AV-D60-7D-C	60.00	40.00	628.00	388.0	G3/4
AV-D60-10D-C	60.00	40.00	813.00	568.0	G3/4

⁽¹⁾ Maximum overhang



Economical Positive Insert Double Sided Master



**Double Sided Insert with
4 Positive Cutting Edges**



Medium Finish



Double Sided Insert



Dovetail



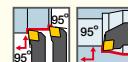
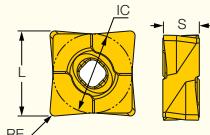
Positive Rake Insert



**SCAN
NOW!**

LOGIQ4TURN
POSITIVE DOUBLE SIDED
CXMG-F3P

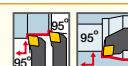
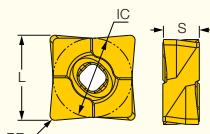
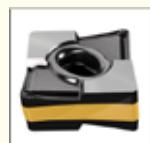
80° Double-Sided and Double-Positive
Inserts with a Positive Rake for
Finishing on Alloyed Steel



Designation	Dimensions				IC8150	Recommended Machining Data	
	L	IC	S	RE		a_p (mm)	f (mm/rev)
CXMG 090404-F3P	10.40	9.70	4.65	0.40	•	0.40-2.00	0.05-0.25
CXMG 12T504-F3P	13.83	12.80	5.80	0.40	•	0.40-2.00	0.05-0.25
CXMG 12T508-F3P	13.75	12.80	5.80	0.80	•	0.40-2.00	0.05-0.25

LOGIQ4TURN
POSITIVE DOUBLE SIDED
CXMG-M3P

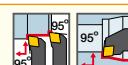
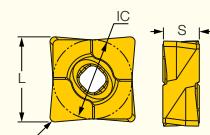
80° Double-Sided and Double-Positive
Inserts with a Positive Rake for
Medium Machining on Alloyed Steel



Designation	Dimensions				Tough ↔ Hard	Recommended Machining Data		
	L	IC	S	RE	IC8250	IC8150	a_p (mm)	f (mm/rev)
CXMG 090408-M3P	10.32	9.70	4.65	0.80	•		0.80-3.00	0.10-0.50
CXMG 12T508-M3P	13.75	12.80	5.80	0.80	•	•	0.80-5.00	0.10-0.50
CXMG 12T512-M3P	13.68	12.80	5.80	1.20	•	•	1.20-5.00	0.10-0.50

LOGIQ4TURN
POSITIVE DOUBLE SIDED
CXMG-F3M

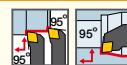
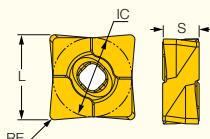
80° Double-Sided and Double-Positive
Inserts with a Positive Rake for
Finishing on Stainless Steel and H.T.A.



Designation	Dimensions				Tough ↔ Hard	Recommended Machining Data			
	L	IC	S	RE	IC6025	IC806	IC807	a_p (mm)	f (mm/rev)
CXMG 090404-F3M	10.40	9.70	4.65	0.40			•	0.40-2.00	0.05-0.25
CXMG 12T504-F3M	13.83	12.80	5.80	0.40	•	•	•	0.40-2.00	0.05-0.25
CXMG 12T508-F3M	13.75	12.80	5.80	0.80	•	•	•	0.80-2.00	0.05-0.25

CXMG-M3M

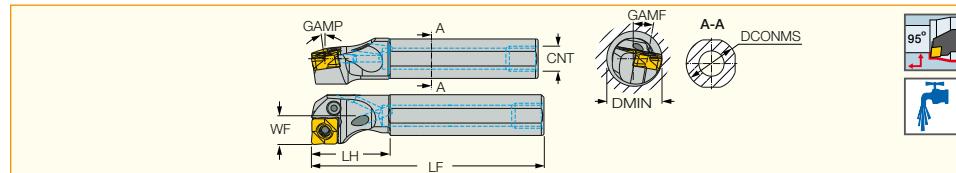
80° Double-Sided and Double-Positive Inserts with a Positive Rake for Medium Machining on Stainless Steel and H.T.A.



Designation	Dimensions				Tough	Hard	Recommended Machining Data		
	L	RE	S	IC	IC6025	IC806	IC807	a_p (mm)	f (mm/rev)
CXMG 090408-M3M	10.32	0.80	4.65	9.70	•			0.80-3.00	0.15-0.50
CXMG 12T508-M3M	13.75	0.80	5.80	12.80	•	•	•	0.80-5.00	0.15-0.50
CXMG 12T512-M3M	13.68	1.20	5.80	12.80	•	•	•	1.20-5.00	0.15-0.50

A-PCLXR/L

Lever Lock Boring Bars Carrying the Negative CXMG 80° Rhombic Inserts



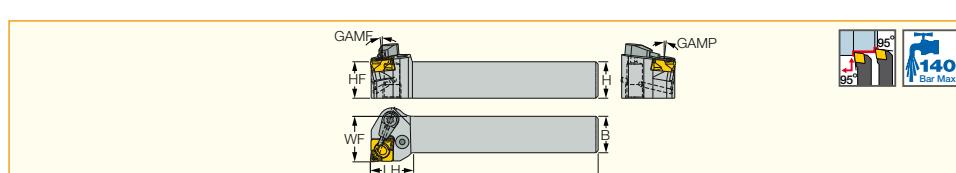
Designation	DCONMS	LF	LDRED	WF	HF	GAMP	GAMF	DMIN	CNT	Insert
A16Q PCLXR/L-09X	16.00	180.00	30.0	11.00	999.0	8.0	10.0	20.00	UNC 3/8"-16	CXMG 09..
A20R PCLXR/L-09X	20.00	200.00	30.0	13.00	999.0	6.0	10.0	25.00	UNC 3/8"-24	CXMG 09..
A25S PCLXR/L-09X	25.00	250.00	40.0	17.00	999.0	6.0	8.0	32.00	UNC 1/2"-20	CXMG 09..

Spare Parts

Designation			
A16Q PCLXL-09X	HW 2.0	LR 3X SET	PL 16
A16Q PCLXR-09X	HW 2.0	LR 3X SET	PL 16
A20R PCLXR/L-09X	HW 2.0	LR 3X SET	PL 20
A25S PCLXR/L-09X	HW 2.0	LR 3X SET	PL 25

PCLXR/L-JHP

Lever Lock Tools with Channels for High Pressure Coolant Carrying the CXMG 80° Rhombic Inserts



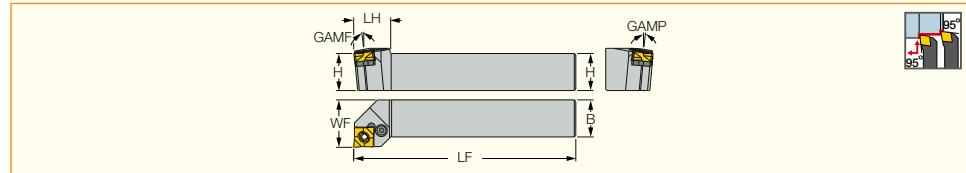
Designation	B	H	HF	LF	LH	WF	GAMP	GAMF	Insert
PCLXR/L 1212F-09X-JHP	12.0	12.0	12.0	80.00	21.5	16.00	6.0	6.0	CXMG 09...
PCLXR/L 1616H-09X-JHP	16.0	16.0	16.0	100.00	20.0	20.00	6.0	6.0	CXMG 09...
PCLXR/L 2020K-12X-JHP	20.0	20.0	20.0	125.00	25.0	25.00	6.0	6.0	CXMG 12...
PCLXR/L 2525M-12X-JHP	25.0	25.0	25.0	150.00	25.0	32.00	6.0	6.0	CXMG 12...

Spare Parts

Designation								
PCLXR/L 1212F-09X-JHP	LR 3X SET				T-8/5	S-CU-JHP-A SET		
PCLXR/L 1616H-09X-JHP	LR 3X SET				T-8/5	S-CU-JHP-A SET		
PCLXR/L 2020K-12X-JHP	TCNX 423	LR-4X	SR LCS 5	HW 3.0	PN 3-4	SP 4	CH-1.9D-JHP-A SET	
PCLXR/L 2525M-12X-JHP	TCNX 423	LR-4X	SR LCS 5	HW 3.0	PN 3-4	SP 4	CH-1.9D-JHP-A SET	

PCLXR/L

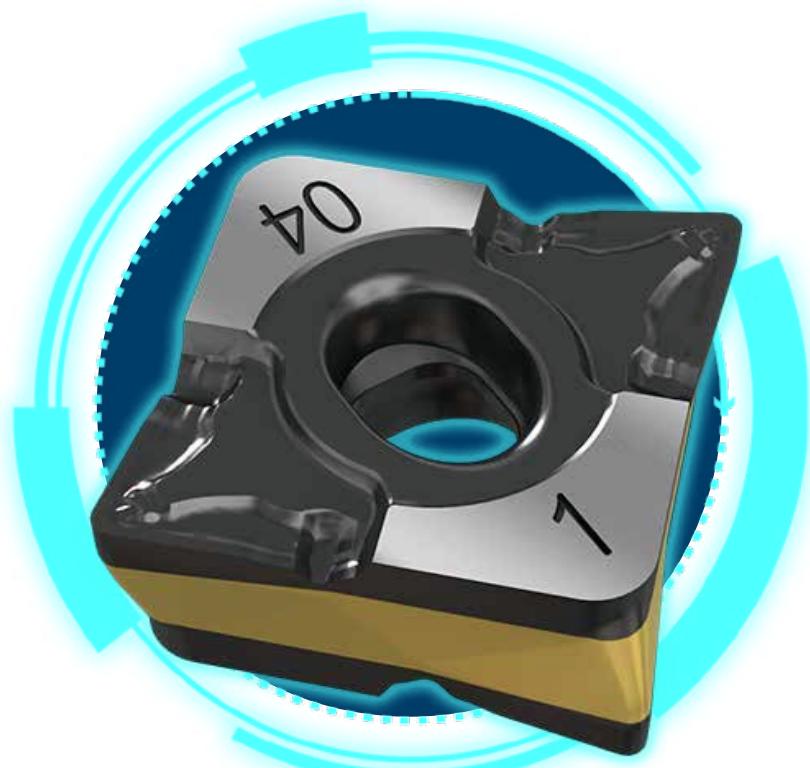
Lever Lock Tools Carrying the CXMG
80° Rhombic Inserts



Designation	B	H	HF	LF	LH	WF	GAMP	GAMF	Insert
PCLXR/L 1212F-09X	12.0	12.0	12.0	80.00	21.5	16.00	6.0	6.0	CXMG 09...
PCLXR/L 1616H-09X	16.0	16.0	16.0	100.00	20.0	20.00	6.0	6.0	CXMG 09...
PCLXR/L 2020K-12X	20.0	20.0	20.0	125.00	25.0	25.00	6.0	6.0	CXMG 12...
PCLXR/L 2525M-12X	25.0	25.0	25.0	150.00	25.0	32.00	6.0	6.0	CXMG 12...

Spare Parts

Designation						
PCLXR/L 1212F-09X		LR 3X SET		HW 2.0		
PCLXR/L 1616H-09X		LR 3X SET		HW 2.0		
PCLXR/L 2020K-12X	TCNX 423	LR-4X	SR 117-2010	HW 3.0	PN 3-4	SP 4
PCLXR/L 2525M-12X	TCNX 423	LR-4X	SR 117-2010	HW 3.0	PN 3-4	SP 4



Member IMC Group
ISCAR

Pinpointed Coolant Jet Master



New Tool Holder with
3 Inlets for Coolant

Rigidly Clamped Holder
with Through-Coolant Clamp
Directed to the Cutting Edge



Rigid Clamping



Easy Chip
Evacuation



Variety of Inserts
for Coolant



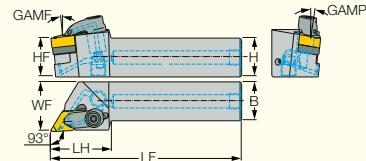
High Pressure
Coolant



Through-Coolant Clamp


DDJNR/L-JHP-MC

Rigid Clamp Tools with Channels for High Pressure Coolant Carrying the 55° Rhombic Inserts



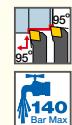
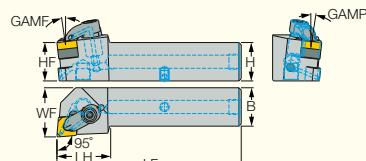
Designation	B	H	HF	LF	LH	WF	GAMP	GAMF	Insert
DDJNR/L 2020X-15-JHP-MC	20.0	20.0	20.0	40.00	125.0	25.00	6.0	6.0	DNMG/X 1506
DDJNR/L 2525X-15-JHP-MC	25.0	25.0	25.0	40.00	150.0	32.00	6.0	6.0	DNMG/X 1506

Spare Parts

Designation					
DDJNL 2020X-15-JHP-MC	RDT 443	LCGL-4JC SET	T-20/5	PLG 1/8BSP TL360	SR 14-506
DDJNR 2020X-15-JHP-MC	RDT 433	LCGR-4JC SET	T-20/5	PLG 1/8BSP TL360	SR 14-506
DDJNL 2525X-15-JHP-MC	RDT 433	LCGL-4JC SET	T-20/5	PLG 1/8BSP TL360	SR 14-506
DDJNR 2525X-15-JHP-MC	RDT 433	LCGR-4JC SET	T-20/5	PLG 1/8BSP TL360	SR 14-506
					T-15/5


DCLNR/L-JHP-MC

Rigid Clamp Tools with Channels for High Pressure Coolant Carrying the 80° Rhombic Inserts



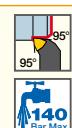
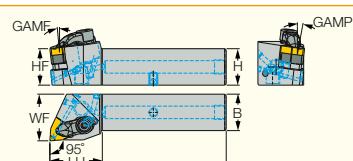
Designation	B	H	HF	LF	LH	WF	GAMP	GAMF	Insert
DCLNR/L 2020X-12-JHP-MC	20.0	20.0	20.0	125.00	35.0	25.00	6.0	6.0	CNMG 1204 CNMX 1207
DCLNR/L 2525X-12-JHP-MC	25.0	25.0	25.0	150.00	35.0	32.00	6.0	6.0	CNMG 1204 CNMX 1207

Spare Parts

Designation					
DCLNL 2020X-12-JHP-MC	RCT 443	LCGL-4JC SET	PLG 1/8BSP TL360	SR 14-506	T-20/5
DCLNR 2020X-12-JHP-MC	RCT 443	LCGR-4JC SET	PLG 1/8BSP TL360	SR 14-506	T-20/5
DCLNL 2525X-12-JHP-MC	RCT 443	LCGL-4JC SET	PLG 1/8BSP TL360	T-15/5	SR 14-506
DCLNR 2525X-12-JHP-MC	RCT 443	LCGR-4JC SET	PLG 1/8BSP TL360	T-15/5	SR 14-506
					T-20/5


DWLNR/L-JHP-MC

Rigid Clamp Tools with Channels for High Pressure Coolant Carrying the 80° Trigon Inserts



Designation	B	H	HF	LF	LH	WF	GAMP	GAMF	Insert
DWLNR/L 2020X-08-JHP-MC	20.0	20.0	20.0	20.00	36.0	25.00	6.0	6.0	WNMG 0804
DWLNR/L 2525X-08-JHP-MC	25.0	25.0	25.0	25.00	36.0	32.00	6.0	6.0	WNMG 0804

Spare Parts

Designation					
DWLNL 2020X-08-JHP-MC	RWT 443	LCGR-4JC SET	SR 14-506	PLG 1/8BSP TL360	T-20/5
DWLNR 2020X-08-JHP-MC	RWT 443	LCGR-4JC SET	SR 14-506	PLG 1/8BSP TL360	T-20/5
DWLNL 2525X-08-JHP-MC	RWT 443	LCGL-4JC SET	T-15/5	SR 14-506	PLG 1/8BSP TL360
DWLNR 2525X-08-JHP-MC	RWT 443	LCGR-4JC SET	T-15/5	SR 14-506	PLG 1/8BSP TL360
					T-20/5

Economical Turning Aluminum Master



**Double Sided
Positive Turning Inserts
for Aluminum**



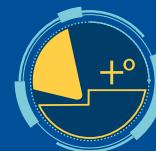
Medium Finish



For Aluminum



Double Sided Insert

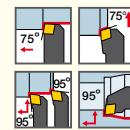
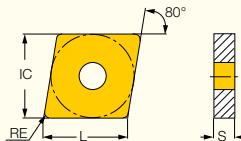


Positive Rake

LOGIQTURN
ISCAR CHESS LINES

CNGG-F3N

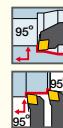
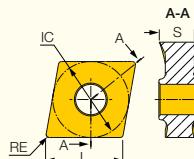
Double-Sided Sharp-Edged Positive and Polished Rake Inserts for Finishing on Aluminum and Other Non-Ferrous Materials



Designation	Dimensions				IC20	Recommended Machining Data	
	L	IC	S	RE		a_p (mm)	f (mm/rev)
CNGG 090402-F3N-P	9.70	9.52	4.76	0.20	•	0.30-3.00	0.10-0.30
CNGG 090404-F3N-P	9.70	9.52	4.76	0.40	•	0.30-3.00	0.10-0.30
CNGG 090408-F3N-P	9.70	9.52	4.76	0.80	•	0.30-3.00	0.10-0.30

CNGX-M3N

Double-Sided Positive Rake Inserts with High Helical and Sharp Edge for Medium Machining on Non-Ferrous Materials

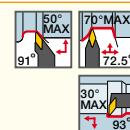
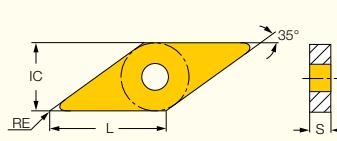


Designation	Dimensions				IC20	Recommended Machining Data	
	L	IC	S	RE		a_p (mm)	f (mm/rev)
CNGX 090604-M3N-P	9.70	9.52	4.40	0.40	•	0.30-3.00	0.10-0.30
CNGX 090608-M3N-P	9.70	9.52	4.40	0.80	•	0.30-3.00	0.10-0.30

• PCLNR/L...X and A..PCLNR/L-X are most recommended as they were designed especially for this insert

VNGU-R3N

Double-Sided Sharp-Edged Positive Rake Inserts for Rough Machining on Aluminum and Other Non-Ferrous Materials

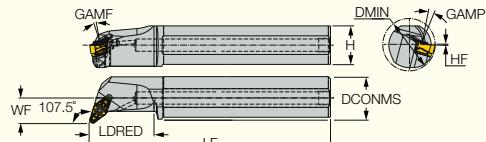


Designation	Dimensions				IC20	Recommended Machining Data	
	L	IC	S	RE		a_p (mm)	f (mm/rev)
VNGU 220616-R3N	22.00	12.70	6.35	1.60	•	0.50-3.00	0.10-0.25
VNGU 220630-R3N	22.00	12.70	6.35	3.00	•	1.50-4.50	0.15-0.30

ALUPTURN
POSITIVE DOUBLE SIDED

A-SVQNR/L-AL-JHP

Screw Lock Boring Bars Carrying the
35° Rhombic Inserts



Designation	DCONMS	LF	LDRED	H	HF	WF	DMIN	CSP	GAMP	GAMF	Insert
A40U SVQNR/L-22-AL-JHP	40.00	348.10	60.0	36.0	0.1	23.40	49.00	Y	6.5	14.5	VNGU 22..

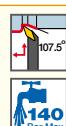
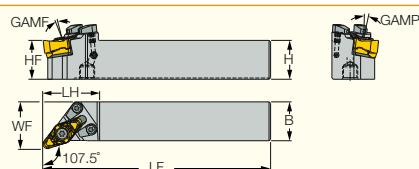
Spare Parts

Designation	TVX 2230	SR 14-591/L-SN	HW 3.0	SW6-T-SH	BLD T20/S7	PL 40	SR TC-4
A-SVQNR/L-AL-JHP							

ALUPTURN
POSITIVE DOUBLE SIDED

SVHNR/L-JHP

Screw Lock Tools with Channels for
High Pressure Coolant Carrying 35°
Rhombic Inserts



Designation	H	B	HF	LF	LH	WF	GAMP	GAMF	Insert
SVHNR/L 2525M-22-AL-JHP	25.0	25.0	25.0	146.34	36.4	30.03	7.0	6.0	VNGU 22..

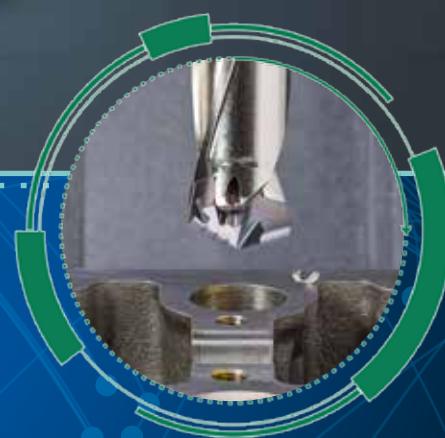
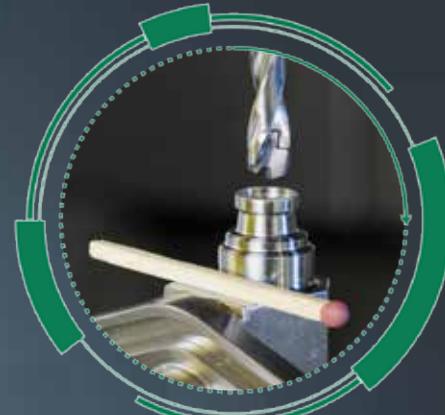
Spare Parts

Designation	TVX 2230	SR 14-591/L-SN	SW6-T-SH	BLD T20/S7	HW 3.0	SR TC-4	CH-1.9D-JHP-A SET
SVHNR/L-JHP							



LOGIQDRILL

ISCAR CHESS LINES



High Productivity



For All
Materials



New Generation



Cost Effective
Insert

MACHINING IN DUSTRY 4.0 TELLIGENTLY

LOGIQ 3CHAM
THREE FLUTE CHAMDRILL

3 Effective Cutting Edges

Dia 12-25.9 mm

Drilling Master



Available in
Diameter Range of 12-25.9 mm with
3 & 5xD Body Overhang

3 Effective Cutting Edges for Higher Drilling Productivity



Self Centering
Insert



For Steel &
Cast Iron



High Productivity



Cost Effective
Insert

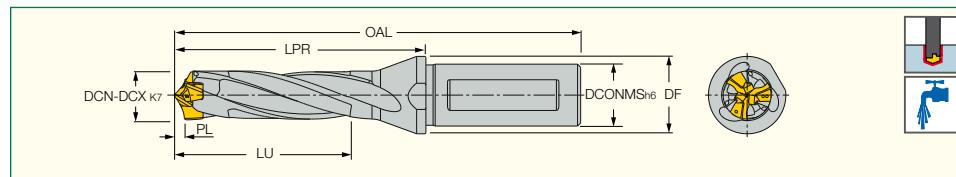


**SCAN
NOW!**

LOGIQ DRILL
ISCAR CHESS LINES

D3N A-3D

Exchangeable Head 3 Flute Drills with
Coolant Holes and One Flat Shank,
Drilling Depth 3xD



Designation	DCN ⁽¹⁾	DCX	LU	PL	DCONMS	DF	LPR	OAL	SSC ⁽²⁾
D3N 120-036-16A-3D	12.00	12.40	39.3	3.30	16.00	20.00	61.00	109.00	12
D3N 125-037-16A-3D	12.50	12.90	40.3	3.30	16.00	20.00	63.30	110.50	12
D3N 130-039-16A-3D	13.00	13.40	42.3	3.30	16.00	20.00	66.10	114.08	13
D3N 135-041-16A-3D	13.50	13.90	43.8	3.30	16.00	20.00	68.30	116.33	13
D3N 140-042-16A-3D	14.00	14.40	45.3	3.30	16.00	20.00	71.20	119.16	14
D3N 145-044-16A-3D	14.50	14.90	46.8	3.30	16.00	20.00	73.40	121.41	14
D3N 150-045-20A-3D	15.00	15.90	48.9	3.90	20.00	25.00	76.20	126.24	15
D3N 160-048-20A-3D	16.00	16.90	51.9	3.90	20.00	25.00	81.30	131.33	16
D3N 170-051-20A-3D	17.00	17.90	54.9	3.90	20.00	25.00	86.40	135.42	17
D3N 180-054-25A-3D	18.00	18.90	58.4	4.40	25.00	32.00	91.50	147.50	18
D3N 190-057-25A-3D	19.00	19.90	61.4	4.40	25.00	32.00	96.60	152.58	19
D3N 200-060-25A-3D	20.00	20.90	64.4	4.40	25.00	32.00	101.70	157.66	20
D3N 210-063-25A-3D	21.00	21.90	67.4	4.40	25.00	32.00	106.70	162.74	21
D3N 220-066-25A-3D	22.00	22.90	70.4	4.40	25.00	32.00	111.80	167.83	22
D3N 230-069-32A-3D	23.00	23.90	74.7	5.70	32.00	42.00	116.90	176.90	23
D3N 240-072-32A-3D	24.00	24.90	77.7	5.70	32.00	42.00	122.00	182.00	24
D3N 250-075-32A-3D	25.00	25.90	80.7	5.70	32.00	42.00	127.10	187.08	25

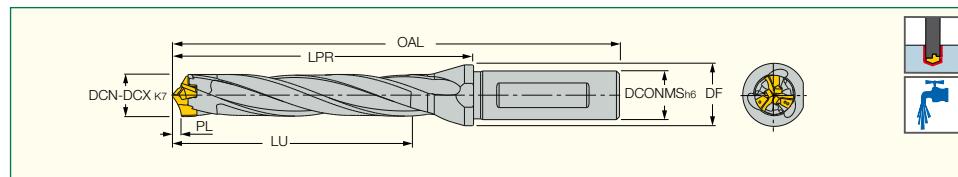
⁽¹⁾ Cutting diameter minimum

⁽²⁾ Seat size code



D3N A-5D

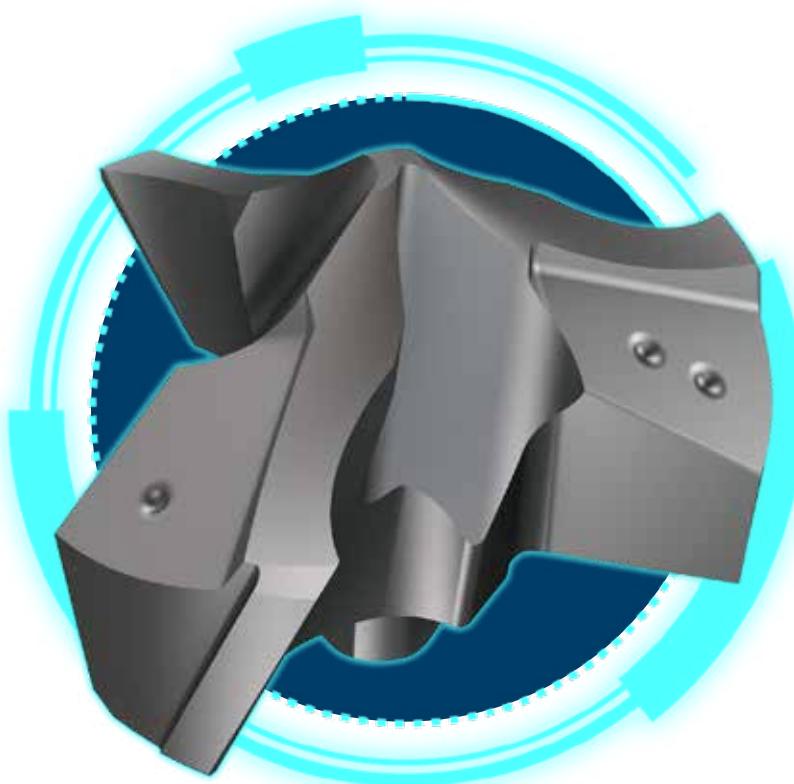
Exchangeable Head 3 Flute Drills with
Coolant Holes and One Flat Shank,
Drilling Depth 5xD



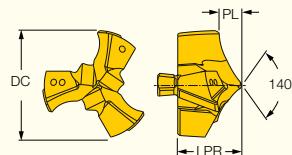
Designation	DCN ⁽¹⁾	DCX	LU	PL	DCONMS	DF	LPR	OAL	SSC ⁽²⁾
D3N 120-060-16A-5D	12.00	12.40	63.3	3.30	16.00	20.00	85.00	133.00	12
D3N 125-062-16A-5D	12.50	12.90	65.3	3.30	16.00	20.00	88.30	135.50	12
D3N 130-065-16A-5D	13.00	13.40	68.3	3.30	16.00	20.00	92.10	140.10	13
D3N 135-068-16A-5D	13.50	13.90	70.8	3.30	16.00	20.00	95.30	143.30	13
D3N 140-070-16A-5D	14.00	14.40	73.3	3.30	16.00	20.00	99.20	147.20	14
D3N 145-073-16A-5D	14.50	14.90	75.8	3.30	16.00	20.00	102.40	150.40	14
D3N 150-075-20A-5D	15.00	15.90	78.9	3.90	20.00	25.00	106.20	156.20	15
D3N 160-080-20A-5D	16.00	16.90	83.9	3.90	20.00	25.00	113.30	163.30	16
D3N 170-085-20A-5D	17.00	17.90	88.9	3.90	20.00	25.00	120.40	169.40	17
D3N 180-090-25A-5D	18.00	18.90	94.4	4.40	25.00	32.00	127.50	183.50	18
D3N 190-095-25A-5D	19.00	19.90	99.4	4.40	25.00	32.00	134.60	190.60	19
D3N 200-100-25A-5D	20.00	20.90	104.4	4.40	25.00	32.00	141.70	197.70	20
D3N 210-105-25A-5D	21.00	21.90	109.4	4.40	25.00	32.00	148.70	204.70	21
D3N 220-110-25A-5D	22.00	22.90	114.4	4.40	25.00	32.00	155.80	211.80	22
D3N 230-115-32A-5D	23.00	23.90	120.7	5.70	32.00	42.00	162.90	222.90	23
D3N 240-120-32A-5D	24.00	24.90	125.7	5.70	32.00	42.00	170.00	230.00	24
D3N 250-125-32A-5D	25.00	25.90	130.7	5.70	32.00	42.00	177.10	237.10	25

⁽¹⁾ Cutting diameter minimum

⁽²⁾ Seat size code



H3P

 Exchangeable 3 Flute Drilling Heads for
 Carbon and Alloy Steel (ISO P)
 and Cast Iron (ISO K)


Designation	Dimensions				IC908
	DC	LPR	SSC ⁽¹⁾	PL	
H3P 120-IQ	12.00	7.00	12	3.30	•
H3P 122-IQ	12.20	7.00	12	3.30	•
H3P 123-IQ	12.30	7.00	12	3.30	•
H3P 125-IQ	12.50	7.00	12	3.30	•
H3P 126-IQ	12.60	7.00	12	3.30	•
H3P 127-IQ	12.70	7.00	12	3.30	•
H3P 128-IQ	12.80	7.00	12	3.30	•
H3P 130-IQ	13.00	7.00	13	3.30	•
H3P 131-IQ	13.10	7.00	13	3.30	•
H3P 133-IQ	13.30	7.00	13	3.30	•
H3P 135-IQ	13.50	7.00	13	3.30	•
H3P 138-IQ	13.80	7.00	13	3.30	•
H3P 140-IQ	14.00	8.20	14	3.30	•
H3P 142-IQ	14.20	8.20	14	3.30	•
H3P 143-IQ	14.30	8.20	14	3.30	•
H3P 145-IQ	14.50	8.20	14	3.30	•
H3P 146-IQ	14.60	8.20	14	3.30	•
H3P 147-IQ	14.70	8.20	14	3.30	•
H3P 150-IQ	15.00	8.80	15	3.90	•
H3P 151-IQ	15.10	8.80	15	3.90	•
H3P 153-IQ	15.30	8.80	15	3.90	•
H3P 154-IQ	15.40	8.80	15	3.90	•
H3P 155-IQ	15.50	8.80	15	3.90	•
H3P 159-IQ	15.90	8.80	15	3.90	•
H3P 160-IQ	16.00	9.40	16	3.90	•
H3P 161-IQ	16.10	9.40	16	3.90	•
H3P 165-IQ	16.50	9.40	16	3.90	•
H3P 167-IQ	16.70	9.40	16	3.90	•
H3P 170-IQ	17.00	9.40	17	3.90	•
H3P 175-IQ	17.50	9.40	17	3.90	•
H3P 176-IQ	17.60	9.40	17	3.90	•
H3P 180-IQ	18.00	11.10	18	4.40	•
H3P 185-IQ	18.50	11.10	18	4.40	•
H3P 190-IQ	19.00	11.10	19	4.40	•
H3P 1905-IQ	19.05	11.10	19	4.40	•
H3P 195-IQ	19.50	11.10	19	4.40	•
H3P 200-IQ	20.00	12.30	20	4.40	•
H3P 205-IQ	20.50	12.30	20	4.40	•
H3P 210-IQ	21.00	12.30	21	4.40	•
H3P 215-IQ	21.50	12.30	21	4.40	•
H3P 220-IQ	22.00	12.30	22	4.40	•
H3P 222-IQ	22.20	12.30	22	4.40	•
H3P 225-IQ	22.50	12.30	22	4.40	•
H3P 230-IQ	23.00	14.60	23	5.70	•
H3P 240-IQ	24.00	14.60	24	5.70	•
H3P 245-IQ	24.50	14.60	24	5.70	•
H3P 250-IQ	25.00	14.60	25	5.70	•
H3P 254-IQ	25.40	14.60	25	5.70	•
H3P 259-IQ	25.90	14.60	25	5.70	•

⁽¹⁾ Seat size code

Smallest Indexable Dia 4.0-5.9 mm Drilling Master



**World's Smallest
Indexable Drill Head
Decreased to 4 mm**



Twisted Coolant
Nozzles



For Every Type
of Material



Innovative
Ergonomic Key



Cost Effective
Insert

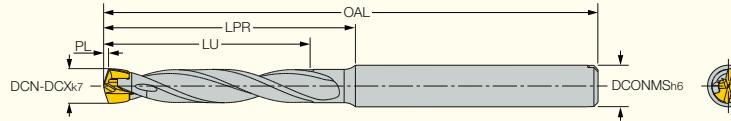
Micro Size Inserts
for High Productivity

SUMOCHAM

CHAMDRILL LINE

DCN R-3D

Indexable Head Drills with Coolant Holes and a Cylindrical Shank, Drilling Depth 3xD



Designation	DCN ⁽¹⁾	DCX	LU	PL	DCONMS	LPR	SSC ⁽²⁾	OAL
DCN 040-012-06R-3D	4.00	4.40	12.6	0.59	6.00	23.0	4	58.00
DCN 045-014-06R-3D	4.50	4.90	14.8	0.75	6.00	24.6	4.5	59.65
DCN 050-015-06R-3D	5.00	5.40	15.7	0.73	6.00	26.3	5	61.33
DCN 055-017-06R-3D	5.50	5.90	17.9	0.90	6.00	28.1	5.5	63.13

⁽¹⁾ Do not mount smaller drilling heads other than the specified range of the drill body

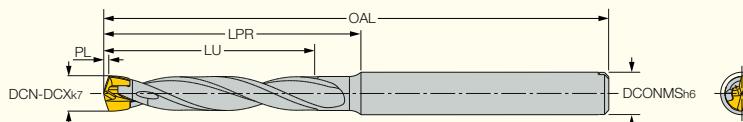
⁽²⁾ Seat size code

SUMOCHAM

CHAMDRILL LINE

DCN R-5D

Indexable Head Drills with Coolant Holes and Cylindrical Shanks, Drilling Depth 5xD



Designation	DCN ⁽¹⁾	DCX	LU	PL	DCONMS	LPR	SSC ⁽²⁾	OAL
DCN 040-020-06R-5D	4.00	4.40	20.6	0.59	6.00	31.0	4	66.00
DCN 045-023-06R-5D	4.50	4.90	22.8	0.75	6.00	33.6	4.5	68.65
DCN 050-025-06R-5D	5.00	5.40	25.7	0.73	6.00	36.3	5	71.30
DCN 055-028-06R-5D	5.50	5.90	27.9	0.90	6.00	39.2	5.5	74.15

⁽¹⁾ Do not mount smaller drilling heads other than the specified range of the drill body

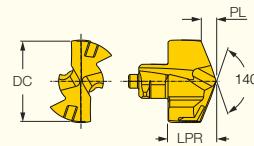
⁽²⁾ Seat size code

SUMOCHAM

CHAMDRILL LINE

ICP

Exchangeable DCN Drill Heads, for Carbon and Alloy Steel (ISO P Materials)



Designation	Dimensions					IC908
	DC	LPR	SSC ⁽¹⁾	PL		
ICP	4.00-4.40	3.40	4	0.59	●	●
	4.50-4.90	3.55	4.5	0.75	●	
ICP/ICM/ICK	5.00-5.40	3.70	5	0.73	●	●
	5.50-5.90	3.85	5.5	0.90	●	

⁽¹⁾ Seat size code

MODUDRILL
MODULAR HEADS

**Drilling System
Dia 33-40 mm
Modu Drill Master**



Multiple Drilling Head Options

Innovative Modular System for Large Diameter and Deep Drilling



Internal Coolant



Easy Chip Evacuation



Innovative Modular System



Cost Effective Insert



Smart and Easy Connection

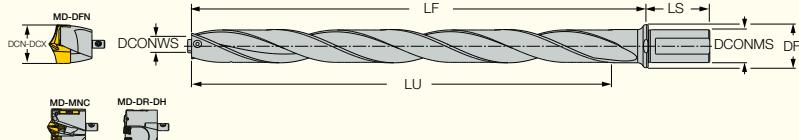
LOGIQDRILL
ISCAR CHESS LINES

MODUDRILL

MODULAR HEADS

MD-BODY

Modular Drill Holders, Each Holder Can Carry 4 Drill Pocket Head Sizes



Designation	DCONMS	DF	LS	LF	LU	DCN ⁽¹⁾	DCX	DCONWS ⁽²⁾
MD-BODY-33-36-400-32A	32.00	42.00	60.0	445.00	393.3	33.00	36.90	6.70
MD-BODY-37-40-400-32A	32.00	42.00	60.0	445.00	393.3	37.00	40.00	6.90

⁽¹⁾ Cutting diameter minimum ⁽²⁾ HEAD connection size

Spare Parts

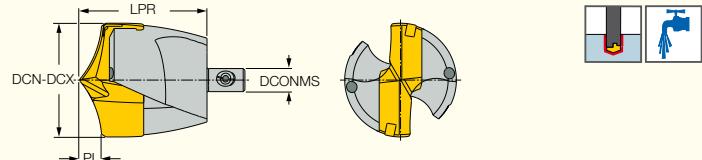
Designation	Image 1	Image 2	Image 3
MD-BODY-33-36-400-32A	SET SCREW-M6	BLD 4 T15-42.5LBF.IN	HSA 4 1-5
MD-BODY-37-40-400-32A	SET SCREW-M6	BLD 4 T15-42.5LBF.IN	HSA 4 1-5

MODUDRILL

MODULAR HEADS

MD-DFN

Indexable Pocket Heads with Coolant Holes for Drilling Holders



Designation	DCN ⁽¹⁾	DCX	LPR	DCONMS	SSC ⁽²⁾	MIID ⁽³⁾	PL	Image
MD-DFN 330 HEAD	33.00	33.90	36.90	6.70	33	HFP 330-IQ	7.33	K DFN 30-40
MD-DFN 340 HEAD	34.00	34.90	37.20	6.70	34	HFP 340-IQ	7.62	K DFN 30-40
MD-DFN 350 HEAD	35.00	35.90	37.20	6.70	35	HFP 350-IQ	7.65	K DFN 30-40
MD-DFN 360 HEAD	36.00	36.90	37.60	6.70	36	HFP 360-IQ	8.15	K DFN 30-40
MD-DFN 370 HEAD	37.00	37.90	37.60	6.90	37	HFP 370-IQ	8.04	K DFN 30-40
MD-DFN 380 HEAD	38.00	38.90	38.00	6.90	38	HFP 380-IQ	8.20	K DFN 30-40
MD-DFN 390 HEAD	39.00	40.00	38.00	6.90	39	HFP 390-IQ	8.43	K DFN 30-40

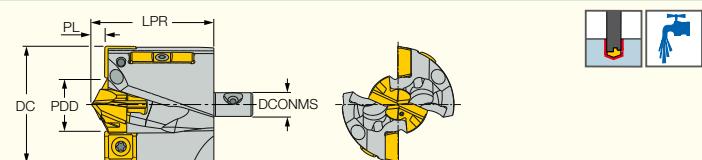
⁽¹⁾ Cutting diameter minimum ⁽²⁾ Seat size code ⁽³⁾ Master insert identification

MODUDRILL

MODULAR HEADS

MD-MNC

Indexable Pocket Heads with Coolant Holes for Drilling Holders



Designation	DC	PDD	LPR	DCONMS	SSC ⁽¹⁾	MIID ⁽²⁾	MIID ₂ ⁽³⁾	PL
MD-MNC 330-175-09	33.00	17.00	30.90	6.70	17	HCP 170	SOGT 09T306-W	3.65
MD-MNC 340-180-09	34.00	18.00	30.90	6.70	18	HCP 180	SOGT 09T306-W	3.70
MD-MNC 350-189-09	35.00	18.90	30.90	6.70	18	HCP 189	SOGT 09T306-W	3.85
MD-MNC 360-190-10	36.00	19.00	30.90	6.70	19	HCP 190	SOGT 100408-W	3.85
MD-MNC 370-200-10	37.00	20.00	33.90	6.90	20	HCP 200	SOGT 100408-W	4.00
MD-MNC 380-209-10	38.00	20.90	33.90	6.90	20	HCP 209	SOGT 100408-W	4.15
MD-MNC 390-215-10	39.00	21.50	33.90	6.90	21	HCP 215	SOGT 100408-W	4.25
MD-MNC 400-225-10	40.00	22.50	33.90	6.90	22	HCP 225	SOGT 100408-W	4.40

⁽¹⁾ Seat size code ⁽²⁾ Master insert identification ⁽³⁾ Master insert identification 2

Spare Parts

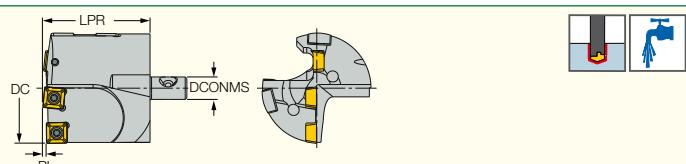
Designation	Image 1	Image 2	Image 3	Image 4	Image 5	Image 6
MD-MNC 330 HEAD	K MNC MULTI	BLD T09/M7-SW4	SW4-SD	SR 34-506	T-7/51	SR 34-508

MODUDRILL

MODULAR HEADS

MD-DR-DH-HEAD

Exchangeable Drilling Heads with Guide Pads, Carrying Square Inserts



Designation	DC	LPR	DCONMS	MIID ⁽¹⁾	PL
MD-DR-DH 330 070606-06	33.00	33.00	6.70	SOMX 06	1.00
MD-DR-DH 340 070606-06	34.00	33.00	6.70	SOMX 06	1.00
MD-DR-DH 350 070606-06	35.00	33.00	6.70	SOMX 07	1.00
MD-DR-DH 360 070707-06	36.00	33.00	6.70	SOMX 07	1.00
MD-DR-DH 370 070707-06	37.00	39.00	6.90	SOMX 07	1.00
MD-DR-DH 380 070707-06	38.00	39.00	6.90	SOMX 07	1.00
MD-DR-DH 390 070707-06	39.00	39.00	6.90	SOMX 07	1.00
MD-DR-DH 400 070707-06	40.00	40.00	6.90	SOMX 07	1.00

⁽¹⁾ Master insert identification

Spare Parts

Designation	Image 1	Image 2	Image 3	Image 4	Image 5	Image 6
MD-DR-DH-HEAD	SR 14-560-HG	T-8/53	SR 22052/HG-P	IP-7/51	GPS-06-20-120	IC908

Small Diameter Dia 12-14 mm Deep Drilling Master



**Small Diameter Deep Drills
with New Chip Splitting
Insert Concept**



Chip Splitting
Concept Insert



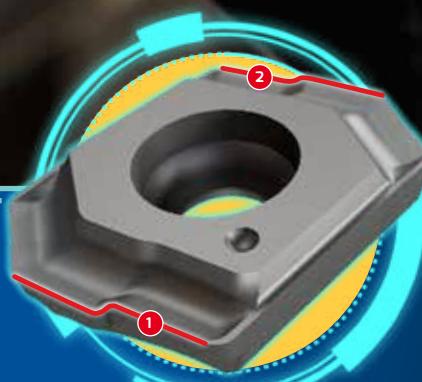
Deep Drilling



Super Surface
Finish



Innovative

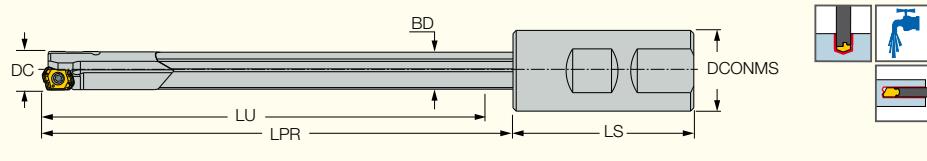


Serrated Cutting Edges
Small Diameter Range:
Ø12-14 mm

TRIDEEP

GD-DHL

Gundrills Carrying Indexable Inserts with 2 Chip Splitting Cutting Edges and a Wiper for High Hole Surface Quality

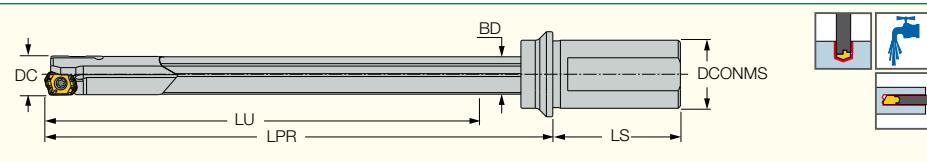


Designation	DC	LPR	LU	DCONMS	LS	BD
GD-DHL-12.00X800-U03	12	800	712	19.05	70	11.5
GD-DHL-12.00X800-22	12	800	732	20.00	50	11.5
GD-DHL-12.00X800-34	12	800	732	20.00	50	11.5
GD-DHL-12.00X1000-U03	12	1000	912	19.05	70	11.5
GD-DHL-12.00X1000-22	12	1000	932	20.00	50	11.5
GD-DHL-12.00X1000-34	12	1000	932	20.00	50	11.5
GD-DHL-12.00X1650-U03	12	1650	1562	19.05	70	11.5
GD-DHL-12.00X1650-22	12	1650	1582	20.00	50	11.5
GD-DHL-12.00X1650-34	12	1650	1582	20.00	50	11.5
GD-DHL-13.00X800-U04	13	800	710	25.4	70	12.5
GD-DHL-13.00X800-23	13	800	724	25.00	56	12.5
GD-DHL-13.00X800-35	13	800	724	25.00	56	12.5
GD-DHL-13.00X1000-U04	13	1000	910	25.4	70	12.5
GD-DHL-13.00X1000-23	13	1000	924	25.00	56	12.5
GD-DHL-13.00X1000-35	13	1000	924	25.00	56	12.5
GD-DHL-13.00X1650-U04	13	1650	1560	25.4	70	12.5
GD-DHL-13.00X1650-23	13	1650	1574	25.00	56	12.5
GD-DHL-13.00X1650-35	13	1650	1574	25.00	56	12.5

TRIDEEP

GD-DH

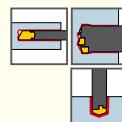
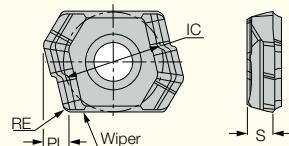
Gundrills Carrying Indexable Inserts with 2 Chip Splitting Cutting Edges and a Wiper for High Hole Surface Quality, 15xD, 20xD, 25xD



Designation	DC	LPR	LU	DCONMS	LS	BD
GD-DH-12.00XM20-15D-04	12	225	195	20	50	11.5
GD-DH-12.00XM20-20D-04	12	290	260	20	50	11.5
GD-DH-12.00XM20-25D-04	12	355	325	20	50	11.5
GD-DH-12.50XM20-15D-04	12.5	226	195	20	50	12
GD-DH-12.50XM20-20D-04	12.5	291	260	20	50	12
GD-DH-12.50XM20-25D-04	12.5	356	325	20	50	12
GD-DH-13.00XM25-15D-04	13	245	210	25	56	12.5
GD-DH-13.00XM25-20D-04	13	315	280	25	56	12.5
GD-DH-13.00XM25-25D-04	13	385	350	25	56	12.5
GD-DH-13.50XM25-15D-04	13.5	245	210	25	56	13
GD-DH-13.50XM25-20D-04	13.5	315	280	25	56	13
GD-DH-13.50XM25-25D-04	13.5	385	350	25	56	13

LOGT

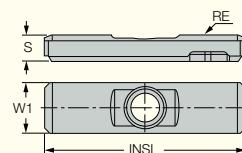
Deep Drilling Inserts with 2 Chip Splitting Cutting Edges, Positive Rake Chipbreaker and a Wiper



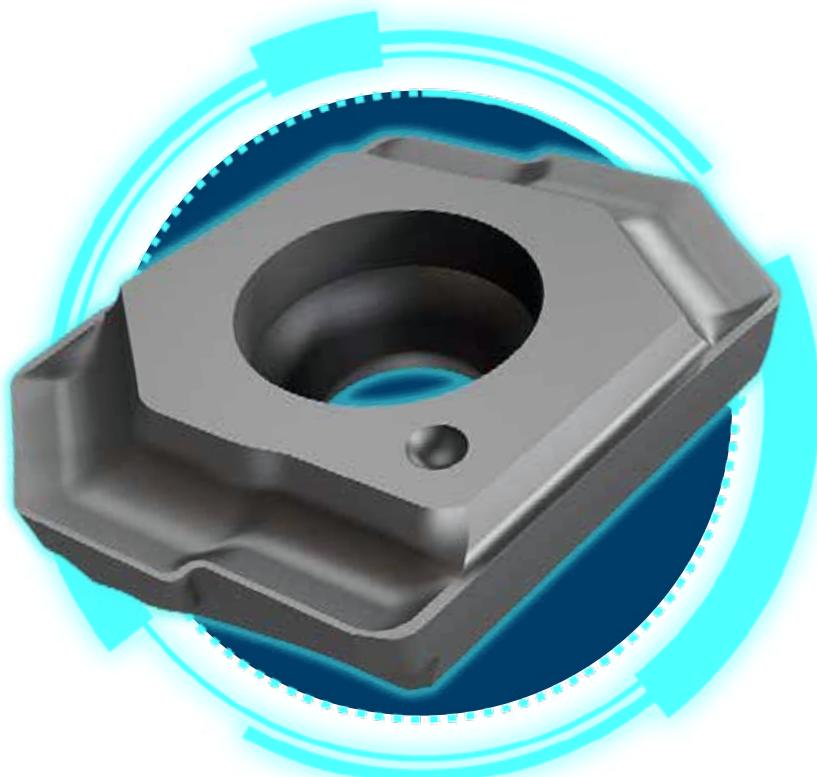
Designation	Dimensions				IC908
	IC	RE	PL	S	
LOGT 060204R-DT	7	0.4	1.8	2	•

GPS

Solid Carbide Guide Pads



Designation	Dimensions				Tough ↪ Hard	IC950	IC908
	W1	S	RE	INSL			
GPS-04-16-055	4.0	2.00	5.5	16	•	•	•



LOGIQGRIP

ISCAR CHESS LINES



High Productivity



For All
Materials



New Generation



Cost Effective
Insert



MACHINING IN DUSTRY 4.0
TELLIGENTLY



Extra-Long Inserts Up to 10 mm D.O.C. **Swiss Master**



Long Reach Inserts and Tools for General Applications on Swiss Type Machines



Variety of Geometries



Rigid Clamping



Precision



Deep Parting and Grooving



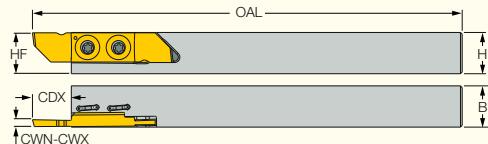
Long Insert with Two Clamping Screws

LOGIC GRIP
ISCAR CHESS LINES

SWISSCUT
EXTRA LONG

SCHR/L-41BF

Grooving and Turning Tools with Back and Front Clamping for Swiss-Type and Automatic Machines



Right-hand shown

Designation	CWX ⁽¹⁾	CDX ⁽²⁾	HF ⁽³⁾	H	B	OAL	Tool Image	Tool Image	Tool Image	Tool Image	
SCHR/L 12-41BF	3.00	11.00	12.0	12.0	12.0	125.00	SR M4.5X0.75-L7.9	BLD T15/S7	SR M2X0.4-L3.5	BLD T10/S7	SW6-SD
SCHR/L 16-41BF	3.00	11.00	16.0	16.0	16.0	125.00	SR M4.5X0.75-L7.9	BLD T15/S7	SR M2X0.4-L3.5	BLD T10/S7	SW6-SD

⁽¹⁾ Cutting width maximum

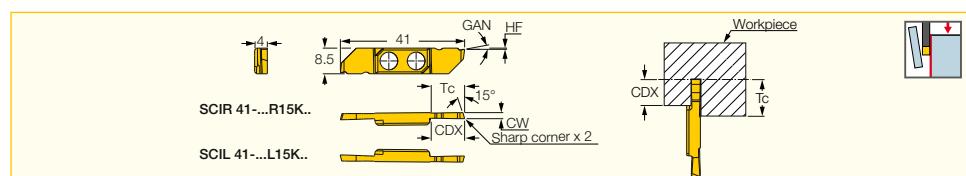
⁽²⁾ See insert data

⁽³⁾ HF=HF (tool)-HF (insert)

SWISSCUT
EXTRA LONG

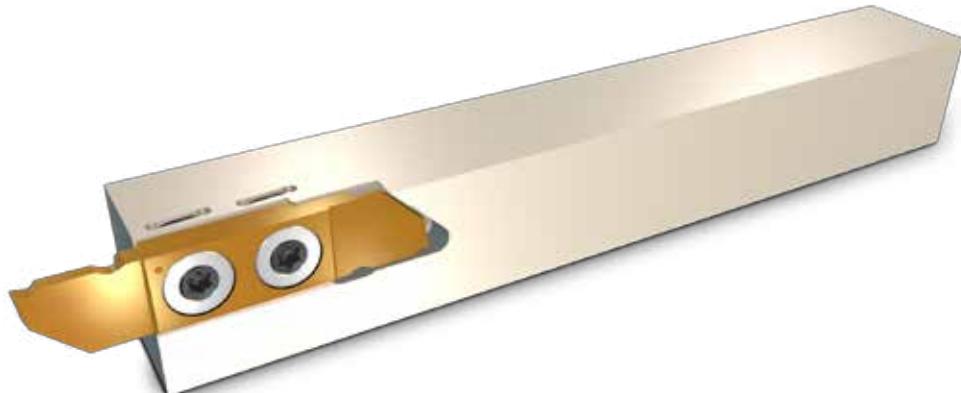
SCIR/L-41-R/L

Parting Inserts

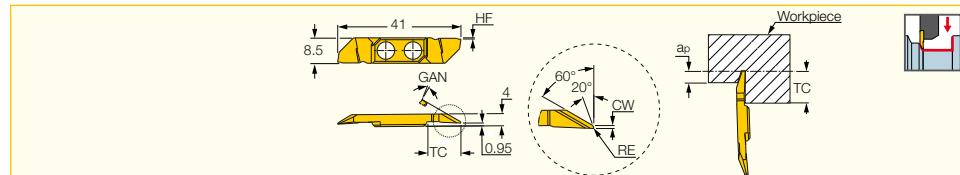


Designation	Dimensions					IC1008	Recommended Machining Data
	CW	GAN	HF ⁽¹⁾	CDX	TC		
SCIL 41-100L15K00	1.00	0.0	0.2	6.00	11.0	●	0.02-0.04
SCIR 41-100R15K00	1.00	0.0	0.2	6.00	11.0	●	0.02-0.04
SCIL 41-150L15K00	1.50	0.0	0.2	8.00	11.0	●	0.03-0.06
SCIR 41-150R15K00	1.50	0.0	0.2	8.00	11.0	●	0.03-0.06
SCIL 41-150L15K7	1.50	7.0	0.5	8.00	11.0	●	0.03-0.06
SCIR 41-150R15K7	1.50	7.0	0.5	8.00	11.0	●	0.03-0.06
SCIL 41-200L15K00	2.00	0.0	0.2	10.00	11.0	●	0.03-0.07
SCIR 41-200R15K00	2.00	0.0	0.2	10.00	11.0	●	0.03-0.07
SCIL 41-200L15K7	2.00	7.0	0.5	10.00	11.0	●	0.03-0.07
SCIR 41-200R15K7	2.00	7.0	0.5	10.00	11.0	●	0.03-0.07
SCIL 41-250L15K00	2.50	0.0	0.2	10.00	11.0	●	0.03-0.07
SCIR 41-250R15K00	2.50	0.0	0.2	10.00	11.0	●	0.03-0.07
SCIL 41-250L15K7	2.50	7.0	0.5	10.00	11.0	●	0.03-0.07
SCIR 41-250R15K7	2.50	7.0	0.5	10.00	11.0	●	0.03-0.07
SCIL 41-300L15K00	3.00	0.0	0.2	10.00	11.0	●	0.03-0.08
SCIR 41-300R15K00	3.00	0.0	0.2	10.00	11.0	●	0.03-0.08

⁽¹⁾ Cutting edge below center



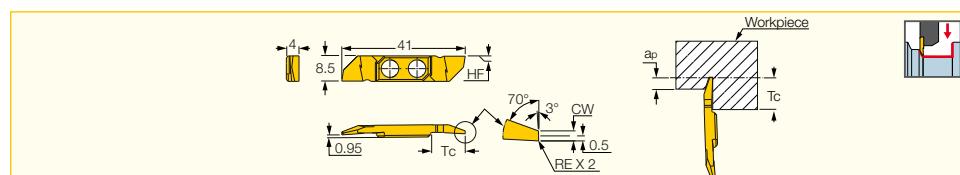
SWISSCUT
EXTRA LONG
SCIR/L-41-BRA/BLA
Back Turning Inserts



Designation	Dimensions					IC1008	Recommended Machining Data	
	CW	RE	HF ⁽¹⁾	TC	GAN		a _p (mm)	f turn (mm/rev)
SCIL 41-BLA08-05K8	0.50	0.08	0.5	11.00	8.0	●	0.10-4.20	0.02-0.15
SCIR 41-BRA08-05K8	0.50	0.08	0.5	11.00	8.0	●	0.10-4.20	0.02-0.15
SCIL 41-BLA08-10K8	1.00	0.08	0.5	11.00	8.0	●	0.10-4.20	0.02-0.15
SCIR 41-BRA08-10K8	1.00	0.08	0.5	11.00	8.0	●	0.10-4.20	0.02-0.15

⁽¹⁾ Cutting edge below center

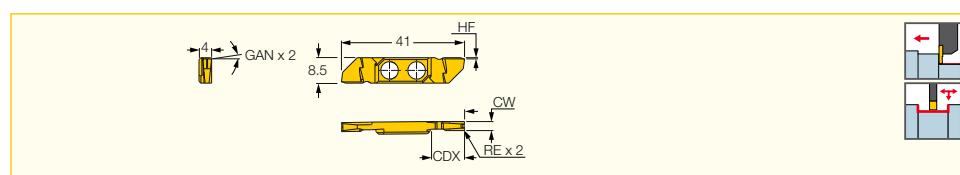
SWISSCUT
EXTRA LONG
SCIR/L-41-ERA/ELA
Back Turning Inserts for Short Chipping Materials



Designation	Dimensions				IC1008	Recommended Machining Data	
	CW	RE	TC	HF ⁽¹⁾		a _p (mm)	f turn (mm/rev)
SCIL 41-ELA00-10K0	1.00	0.00	11.0	0.2	●	0.05-5.00	0.02-0.15
SCIR 41-ERA00-10K0	1.00	0.00	11.0	0.2	●	0.05-5.00	0.02-0.15
SCIL 41-ELA08-10K0	1.00	0.08	11.0	0.2	●	0.10-5.00	0.02-0.15
SCIR 41-ERA08-10K0	1.00	0.08	11.0	0.2	●	0.10-5.00	0.02-0.15

⁽¹⁾ Cutting edge below center

SWISSCUT
EXTRA LONG
SCIR/L-41-AD
Turning Inserts

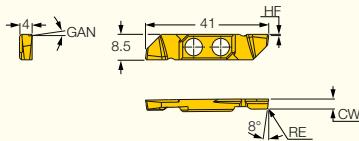


Designation	Dimensions					IC1008	Recommended Machining Data		
	CW	RE	CDX	HF ⁽¹⁾	GAN		a _p (mm)	f turn (mm/rev)	f groove (mm/rev)
SCIR/L 41-AD08-30K8	3.00	0.08	11.00	0.5	8.0	●	0.12-4.00	0.02-0.15	0.01-0.06

⁽¹⁾ Cutting edge below center

SWISSCUT
EXTRA LONG

SCIR/L-41-AR/AL

 Turning Inserts with a
Frontal Relief Angle


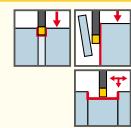
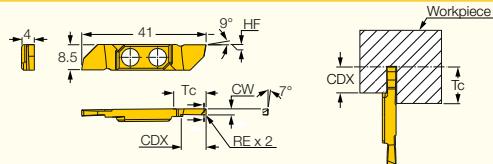
Designation	Dimensions				IC1008	Recommended Machining Data	
	CW	RE	HF ⁽¹⁾	GAN		a_p (mm)	f turn (mm/rev)
SCIL 41-AL00-33K16	3.30	0.00	0.5	16.0	●	0.05-4.00	0.02-0.15
SCIR 41-AR00-33K16	3.30	0.00	0.5	16.0	●	0.05-4.00	0.02-0.15

⁽¹⁾ Cutting edge under center distance

SWISSCUT
EXTRA LONG

SCIR/L-41-NP

Grooving, Turning and Parting Inserts



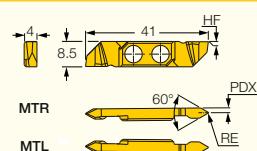
Designation	Dimensions					IC1008	Recommended Machining Data		
	CW	RE	HF ⁽¹⁾	CDX	TC		a_p (mm)	f turn (mm/rev)	f groove (mm/rev)
SCIR/L 41-150NP08	1.50	0.08	0.2	8.00	10.0	●	0.10-1.80	0.02-0.10	0.02-0.07
SCIR/L 41-200NP08	2.00	0.08	0.2	8.00	10.0	●	0.10-2.50	0.02-0.15	0.02-0.09
SCIR/L 41-250NP08	2.50	0.08	0.2	10.00	10.0	●	0.10-3.00	0.02-0.17	0.02-0.11
SCIR/L 41-300NP08	3.00	0.08	0.2	10.00	10.0	●	0.10-4.00	0.02-0.20	0.02-0.12

⁽¹⁾ When turning to the opposite side of chipformer, maximum D.O.C. is 0.5 mm

⁽¹⁾ Cutting edge below center

SWISSCUT
EXTRA LONG

SCIR/L-41-MTR/MTL

 Threading Inserts with a
60° Partial Profile


Designation	Dimensions							IC1008
	RE	PDX	TPN ⁽¹⁾	TPX ⁽²⁾	TPIX ⁽³⁾	TPIN ⁽⁴⁾	HF ⁽⁵⁾	
SCIL 41-MTL006	0.06	0.9	0.40	1.50	64.00	17.00	0.2	●
SCIR 41-MTR006	0.06	0.9	0.40	1.50	64.00	17.00	0.2	●
SCIL 41-MTL020	0.20	1.6	1.50	2.50	17.00	10.00	0.2	●
SCIR 41-MTR020	0.20	1.6	1.50	2.50	17.00	10.00	0.2	●

⁽¹⁾ Thread pitch minimum (mm)

⁽²⁾ Thread pitch maximum (mm)

⁽³⁾ Threads per inch maximum

⁽⁴⁾ Threads per inch minimum

⁽⁵⁾ Cutting edge below center

Mini Penta for Grooving & Parting Next to Shoulder 0.25-3.18 mm

Miniature Master



Pentagonal Insert with **5 Cutting Edges**
for Grooving & Parting Miniature Parts
Next to Shoulder



For Grooving,
Parting, Turning
& Threading
Application



For Every Type
of Material



Innovative



Cost Effective
Insert

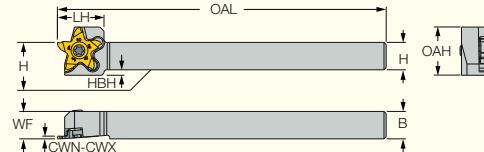
Left & Right Insert Widths:
0.25 – 3.18 mm





PCHRS/LS-17

Tools Carrying Inserts with 5 Cutting Edges for Grooving, Parting and Recessing Next to High Shoulders



Right-hand shown

Designation	H	B	CWN⁽¹⁾	CWX⁽²⁾	WF	OAL	LH	HBH	OAH
PCHR/LS 10-17	10.0	10.0	0.25	3.18	10.00	120.00	17.0	2.0	17.6
PCHR/LS 12-17	12.0	12.0	0.25	3.18	12.00	120.00	17.0	-	17.6
PCHR/LS 16-17	16.0	16.0	0.25	3.18	16.00	120.00	17.0	-	21.6
PCHR/LS 20-17	20.0	20.0	0.25	3.18	20.00	120.00	17.0	-	25.6

(1) Cutting width minimum

(2) Cutting width maximum

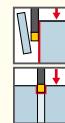
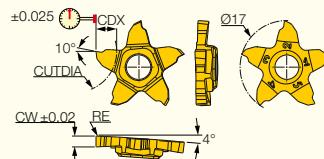
Spare Parts

Designation		
PCHLS 10-17	SR M4-39432	T-1508/5
PCHRHS 10-17	SR M4-39432L	T-1508/5
PCHLS 12-17	SR M4-39432	T-1508/5
PCHRHS 12-17	SR M4-39432L	T-1508/5
PCHLS 16-17	SR M4-39432	T-1508/5
PCHRHS 16-17	SR M4-39432L	T-1508/5
PCHLS 20-17	SR M4-39432	T-1508/5
PCHRHS 20-17	SR M4-39432L	T-1508/5



PENTA 17-P-RS/LS

Pentagonal Inserts for Parting and Grooving Soft Materials, Thin and Miniature Parts

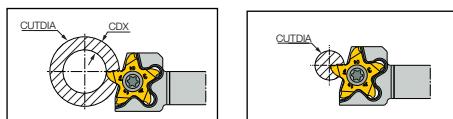


Designation	Dimensions				IC1008	Recommended Machining Data
	CW	RE	CDX	CUTDIA		
PENTA 17N025P000R/LS	0.25	0.00	0.60	1.2	●	0.02-0.03
PENTA 17N030P000R/LS	0.30	0.00	0.60	1.2	●	0.02-0.03
PENTA 17N033P000R/LS	0.33	0.00	0.60	1.2	●	0.02-0.03
PENTA 17N043P000R/LS	0.43	0.00	1.00	2.0	●	0.02-0.04
PENTA 17N050P000R/LS	0.50	0.00	2.00	4.0	●	0.02-0.04
PENTA 17N075P000R/LS	0.75	0.00	2.50	5.0	●	0.02-0.04
PENTA 17N080P000R/LS	0.80	0.00	2.50	5.0	●	0.02-0.04
PENTA 17N095P000R/LS	0.95	0.00	3.00	6.0	●	0.02-0.05
PENTA 17N100P010R/LS	1.00	0.10	3.00	6.0	●	0.02-0.05
PENTA 17N100P050R/LS	1.00	0.50	3.00	6.0	●	0.02-0.05
PENTA 17N120P010R/LS	1.20	0.10	3.00	6.0	●	0.02-0.05
PENTA 17N140P010R/LS	1.40	0.10	3.00	6.0	●	0.02-0.05
PENTA 17N150P010R/LS	1.50	0.10	4.00	8.0	●	0.02-0.07
PENTA 17N157P010R/LS	1.57	0.10	4.00	8.0	●	0.02-0.07
PENTA 17N157P079R/LS	1.57	0.79	4.00	8.0	●	0.02-0.07
PENTA 17N170P010R/LS	1.70	0.10	4.00	8.0	●	0.02-0.07
PENTA 17N178P010R/LS	1.78	0.10	4.00	8.0	●	0.02-0.07
PENTA 17N196P010R/LS	1.96	0.10	4.00	8.0	●	0.02-0.08
PENTA 17N200P010R/LS	2.00	0.10	4.00	8.0	●	0.02-0.08
PENTA 17N200P100R/LS	2.00	1.00	4.00	8.0	●	0.02-0.08
PENTA 17N222P010R/LS	2.22	0.10	4.00	8.0	●	0.02-0.08
PENTA 17N230P010R/LS	2.30	0.10	4.00	8.0	●	0.02-0.08
PENTA 17N239P010R/LS	2.39	0.10	4.00	8.0	●	0.02-0.08
PENTA 17N239P120R/LS	2.39	1.20	4.00	8.0	●	0.02-0.08
PENTA 17N247P010R/LS	2.47	0.10	4.00	8.0	●	0.02-0.08
PENTA 17N250P010R/LS	2.50	0.10	4.00	8.0	●	0.02-0.08
PENTA 17N270P010R/LS	2.70	0.10	4.00	8.0	●	0.02-0.09
PENTA 17N287P010R/LS	2.87	0.10	4.00	8.0	●	0.02-0.10
PENTA 17N300P010R/LS	3.00	0.10	4.00	8.0	●	0.02-0.10
PENTA 17N318P010R/LS	3.18	0.10	4.00	8.0	●	0.02-0.10

PENTA 17N...P...RS/LS - Precision Grooving & Parting Off Inserts

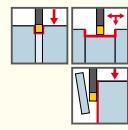
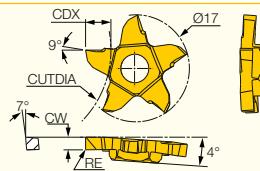
Designation	CW ± 0.02	RE	CDX	CUTDIA as a function of depth of cut (CDX)							Parting to center CUTDIA
				CDX≤2.3	CDX≤2.5	CDX≤3.0	CDX≤3.5	CDX≤3.8	CDX≤4.0		
PENTA 17N025P000RS/LS	0.25	0.00	0.6*	-	-	-	-	-	-	-	
PENTA 17N030P000RS/LS	0.30	0.00	0.6*	-	-	-	-	-	-	-	
PENTA 17N033P000RS/LS	0.30	0.00	0.6*	-	-	-	-	-	-	-	
PENTA 17N043P000RS/LS	0.43	0.00	1.0*	-	-	-	-	-	-	-	
PENTA 17N050P000RS/LS	0.50	0.00	2.0*	-	-	-	-	-	-	-	4
PENTA 17N075P000RS/LS	0.75	0.00	2.5	N.L.	-	-	-	-	-	-	5
PENTA 17N080P000RS/LS	0.80	0.00	2.5	N.L.	-	-	-	-	-	-	
PENTA 17N095P000RS/LS	0.95	0.00		N.L.							
PENTA 17N100P010RS/LS	1.00	0.10		N.L.							
PENTA 17N100P050RS/LS	1.00	0.50	3.0	N.L.		100					6
PENTA 17N120P010RS/LS	1.20	0.10		N.L.							
PENTA 17N140P010RS/LS	1.40	0.10		N.L.							
PENTA 17N150P010RS/LS	1.50	0.10		N.L.							
PENTA 17N157P010RS/LS	1.57	0.10		N.L.							
PENTA 17N157P079RS/LS	1.57	0.79		N.L.							
PENTA 17N170P010RS/LS	1.70	0.10		N.L.							
PENTA 17N178P010RS/LS	1.78	0.10		N.L.							
PENTA 17N196P010RS/LS	1.96	0.10		N.L.							
PENTA 17N200P010RS/LS	2.00	0.10		N.L.							
PENTA 17N200P100RS/LS	2.00	1.00		N.L.							
PENTA 17N222P010RS/LS	2.22	0.10		N.L.	400	100	55	32	20		
PENTA 17N230P010RS/LS	2.30	0.10		N.L.							
PENTA 17N239P010RS/LS	2.39	0.10		N.L.							
PENTA 17N239P120RS/LS	2.39	1.20		N.L.							
PENTA 17N247P010RS/LS	2.47	0.10		N.L.							
PENTA 17N250P010RS/LS	2.50	0.10		N.L.							
PENTA 17N270P010RS/LS	2.70	0.10		N.L.							
PENTA 17N287P010RS/LS	2.87	0.10		N.L.							
PENTA 17N300P010RS/LS	3.00	0.10		N.L.							
PENTA 17N318P010RS/LS	3.18	0.10		N.L.	400	100	55	32	25		

* N.L. = NO LIMIT



PENTACUT
PARTING & GROOVING LINE

PENTA 17-NP-RS/LS
Pentagonal Inserts for Precision Grooving and Turning Next to High Shoulder Applications



Designation	Dimensions				IC1008	Recommended Machining Data		
	CW	RE	CDX	CUTDIA		ap (mm)	f turn (mm/rev)	f groove (mm/rev)
PENTA 17-100NP08R/LS	1.00	0.08	3.00	32.0	●	0.05-0.70	0.02-0.06	0.03-0.06
PENTA 17-200NP08R/LS	2.00	0.08	4.00	32.0	●	0.05-2.50	0.05-0.15	0.05-0.09
PENTA 17-300NP08R/LS	3.00	0.08	4.00	32.0	●	0.05-3.10	0.05-0.19	0.05-0.11

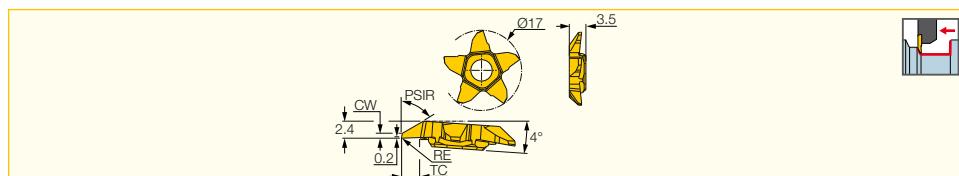
• When turning to the opposite side of chipformer, maximum D.O.C. is 0.5 mm

Designation	Dimensions				Dmax as a function of depth of cut (T)				
	W	R	T _{max-r}	T _c	T≤2.5	T≤3.0	T≤3.5	T≤3.8	T≤4.0
PENTA 17-100NP08-L/RS	1.00	0.08	3.00	N.L.	100	-	-	-	-
PENTA 17-200NP08-L/RS	2.00	0.08	4.00	N.L.	100	75	45	32	32
PENTA 17-300NP08-L/RS	3.00	0.08	4.00	N.L.	100	75	45	32	32

(1) N.L. - No Limit

PENTACUT
PARTING & GROOVING LINE

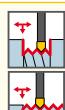
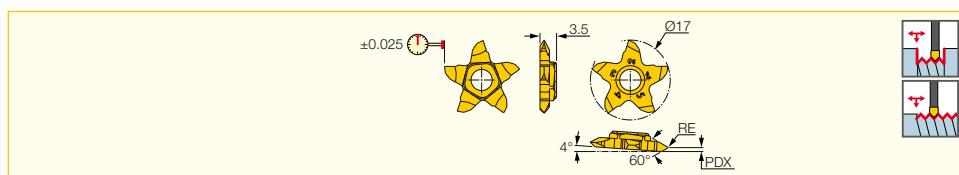
PENTA 17-ER/EL
Back Turning Pentagonal Inserts for Short Chipping Materials



Designation	Dimensions				IC1008	Recommended Machining Data	
	CW	RE	PSIR	T _c		a _p (mm)	f turn (mm/rev)
PENTA 17EL00-07K0LS	0.70	0.00	60.0	4.0	●	0.05-2.50	0.01-0.15
PENTA 17ER00-07K0RS	0.70	0.00	60.0	4.0	●	0.05-2.50	0.01-0.15
PENTA 17EL08-07K0LS	0.70	0.80	60.0	4.0	●	0.05-2.50	0.01-0.15
PENTA 17ER08-07K0RS	0.70	0.80	60.0	4.0	●	0.05-2.50	0.01-0.15

PENTACUT
PARTING & GROOVING LINE

PENTA 17-MT-RS/LS
Precision Ground Pentagonal External Threading Inserts with a 60° Partial Profile

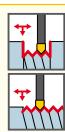
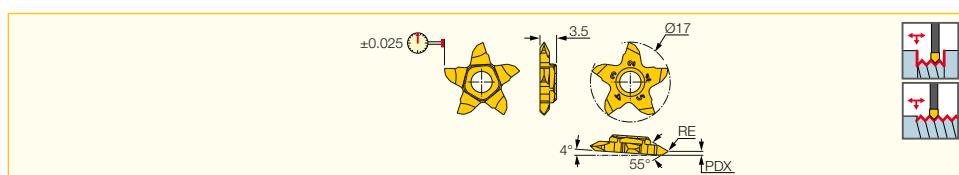


Designation	Dimensions				IC1008
	TPN ⁽¹⁾	TPX ⁽²⁾	RE	PDX	
PENTA 17-MTL003LS	0.30	1.75	0.03	0.8	●
PENTA 17-MTR003RS	0.30	1.75	0.03	0.8	●
PENTA 17-MTL008LS	0.70	3.50	0.08	1.4	●
PENTA 17-MTR008RS	0.70	3.50	0.08	1.4	●

(1) Thread pitch minimum (mm) (2) Thread pitch maximum (mm)

PENTACUT
PARTING & GROOVING LINE

PENTA 17-WT-RS/LS
Precision Ground Pentagonal External Threading Inserts with a 55° Partial Profile



Designation	Dimensions				IC1008
	TPIX ⁽¹⁾	TPIN ⁽²⁾	RE	PDX	
PENTA 17-WTL003LS	72.00	17.00	0.03	0.8	●
PENTA 17-WTR003RS	72.00	17.00	0.03	0.8	●
PENTA 17-WTL008LS	31.00	7.00	0.08	1.4	●
PENTA 17-WTR008RS	31.00	7.00	0.08	1.4	●

(1) Threads per inch maximum (2) Threads per inch minimum

Pentagonal Adapters 5 Pockets Blade Master



Up to 45 mm bar diameter
Tang-Grip 2-3 mm



Up to 22 mm bar diameter
GFT for Small Size 0.8-1.6 mm



Pentagonal Economical Adapters,
5 Pockets for Parting & Grooving



Ease of Use



High Pressure
Coolant



New Generation



Cost Effective
Insert

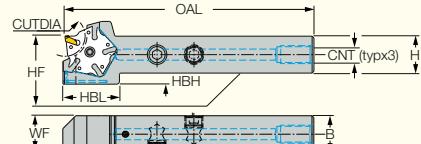


**SCAN
NOW!**

LOGIQ⁵GRIP PARTING & GROOVING

THMPRL D22-JHP

Holders with High Pressure
Coolant Channels for Pentagonal
SELF-GRIP Adapters



Designation	H	HF	HBH	B	WF	CUTDIA	OAL	HBL	CNT
THMPRL 16-D22-JHP	16.0	16.1	10.0	16.0	14.60	22.0	135.00	29.6	UNF 5/16-24
THMPRL 20-D22-JHP	20.0	20.1	6.0	20.0	18.60	22.0	135.00	29.6	G1/8

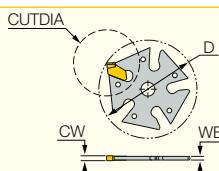
Spare Parts

Designation	SR 5/16UNF TL360	HW 5/32"	SR M4X8 DIN912	HW 3.0
THMPPL 16-D22-JHP	SR 5/16UNF TL360	HW 5/32"	SR M4X8 DIN912	HW 3.0
THMPPL 16-D22-JHP	SR 5/16UNF TL360	HW 5/32"	SR M4X8 DIN912	HW 3.0
THMPPL 20-D22-JHP	PLG 1/8BSP TL360	HW 5.0	SR M4X8 DIN912	HW 3.0
THMPPL 20-D22-JHP	PLG 1/8BSP TL360	HW 5.0	SR M4X8 DIN912	HW 3.0

LOGIQ⁵GRIP PARTING & GROOVING

ADMP D22

Parting and Grooving Adapters With 5 Pockets for SELF-GRIP Inserts



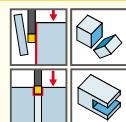
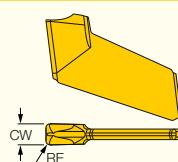
Designation	CW	WB	D	CUTDIA	Insert
ADMP D22-0.8	0.80	0.70	32	22.0	GFT 0.8 ESG-SLM*
ADMP D22-1.0	1.00	0.90	32	22.0	GFT 1.0 ESG-SLM*
ADMP D22-1.2	1.20	1.06	32	22.0	GFT 1.2 ESG-SLM*
ADMP D22-1.6	1.60	1.20	32	22.0	GFT 1.6 ESG-SLM*

* Optional, should be ordered separately

SLIMGRIP NARROW INSERTS

GFT-J

Thin Parting, Grooving & Slitting
Single-Ended Inserts for Soft Materials

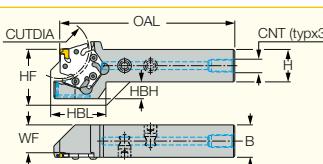


Designation	Dimensions			Tough ↪ Hard		Recommended Machining Data
	CW	RE	RE	IC1028	IC1008	
GFT 0.8J-0.1	0.80	0.10	0.10	•	•	0.03-0.08
GFT 1.0J-0.1	1.00	0.10	0.10	•	•	0.03-0.10
GFT 1.2J-0.14	1.20	0.14	0.14	•	•	0.03-0.10
GFT 1.6J-0.16	1.60	0.16	0.16	•	•	0.03-0.12

LOGIQ⁵GRIP PARTING & GROOVING

THMPRL D45-JHP

Holders with High Pressure
Coolant Channels for Pentagonal
TANG-GRIP Adapters

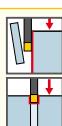
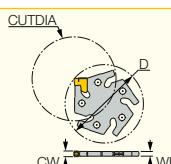


Designation	H	HF	HBH	B	WF	CUTDIA	OAL	HBL	CNT
THMPRL 20-D45-JHP	20.0	20.1	18.0	20.0	17.35	45.0	135.00	35.6	G1/8 SR M3X8DIN912 HW 2.5 PLG 1/8BSP TL360 HW 5.0
THMPRL 25-D45-JHP	25.0	25.1	13.0	25.0	22.35	45.0	135.00	35.6	G1/8 SR M3X8DIN912 HW 2.5 PLG 1/8BSP TL360 HW 5.0

LOGIQ⁵GRIP PARTING & GROOVING

ADMP D45

Parting and Grooving Adapters
With 5 Pockets for TANG-GRIP
Tangentially Clamped Inserts



Designation	CWN ⁽¹⁾	CWX ⁽²⁾	WB	D	CUTDIA	Insert
ADMP D45-2.0	1.80	2.40	1.60	42	45.0	TAG 2 ETG 2*
ADMP D45-3.0	2.80	3.50	2.50	42	45.0	TAG 3 ETG 3-4-SH*

* Optional, should be ordered separately

⁽¹⁾ Cutting width minimum ⁽²⁾ Cutting width maximum



TANG GRIP
HIGH FEED PARTING

Ultra High Feed 3-5 mm Width Parting Master



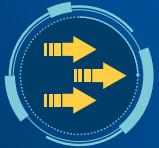
High Feed TANG-GRIP Insert 3-5 mm Width



Ultra High Feed Parting
Insert and Tool Guarantees
Higher Productivity



Rigid Clamping



Extra High Feed

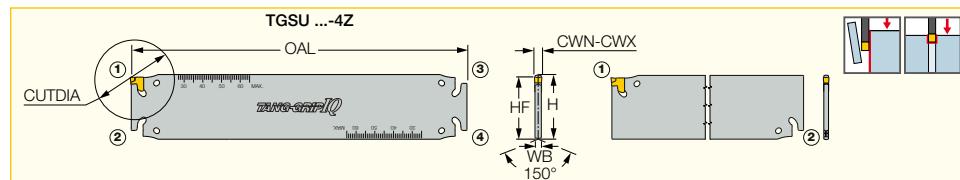


High Pressure
Coolant



Cost Effective
Insert

LOGIQ GRIP
ISCAR CHESS LINES



Designation	H	CWN	CWX	CUTDIA	NOP ⁽²⁾	WB	OAL	HF	Insert	Tool
TGSU 35-1.4-IQ	35.0	1.40	1.40	35.0	2	2.50 ⁽³⁾	180.00	33.2	N	TAG 1.4 ETG 1.4/1.6*
TGSU 35-2-IQ	35.0	1.80	2.40	59.5	2	2.50 ⁽⁴⁾	160.00	33.2	N	TAG 2 ETG 2*
TGSU 35-3-IQ-4Z	35.0	2.80	3.50	120.0	4	2.50	180.00	33.2	N	TAG 3 ETG 3-4-SH*
TGSU 35-3-4Z-JHP	35.0	2.80	3.50	120.0	4	2.50	188.50	33.2	Y	TAG 3 ETG 3-4-SH* SGC 340
TGSU 35-4-IQ-4Z	35.0	3.70	4.50	120.0	4	3.40	180.00	33.2	N	TAG 4 ETG 3-4-SH*
TGSU 35-4-4Z-JHP	35.0	3.70	4.50	120.0	4	3.40	188.50	33.2	Y	TAG 4 ETG 3-4-SH* SGC 340
TGSU 35-5-IQ	35.0	4.70	5.50	144.0	2	4.00	180.00	33.2	N	TAG 5 ETG 5-7*
TGSU 35-6-IQ	35.0	5.70	6.50	144.0	2	5.20	180.00	33.2	N	TAG 6 ETG 5-7*
TGSU 35-7-IQ	35.0	6.80	7.50	144.0	2	6.00	180.00	33.2	N	TAG 7 ETG 5-7*
TGSU 35C-8-IQ ⁽¹⁾	35.0	7.70	8.50	144.0	2	7.20	180.00	33.2	Y	TAG 8 ETG 8-12*
TGSU 35C-9-IQ ⁽¹⁾	35.0	8.70	10.00	144.0	2	8.20	180.00	33.2	Y	TAG 9 ETG 8-12*
TGSU 56C-7-IQ ⁽¹⁾	56.0	6.80	7.50	220.0	2	6.00	260.00	53.6	Y	TAG 7 ETG 5-7*
TGSU 56C-8-IQ ⁽¹⁾	56.0	7.70	8.50	220.0	2	7.20	260.00	53.6	Y	TAG 8
TGSU 56C-9-IQ ⁽¹⁾	56.0	8.70	10.00	220.0	2	8.20	260.00	53.6	Y	TAG 9

⁽¹⁾ C- Internal coolant, use with TGTBU HD blocks only; cooling tube SGCU 341 should be ordered separately

⁽²⁾ Number of pockets ⁽³⁾ Thickness at the D.O.C. area is 1.05 mm ⁽⁴⁾ Thickness at the D.O.C. area is 1.65 mm

* Optional, should be ordered separately

For inserts: TAG N-A • TAG N-C/W/M • TAG N-J/JS/JT • TAG N-LF • TAG N-MF • TAG N-UT • TAG R/L-C • TAG R/L-J/JS • TAGB/TAGBA

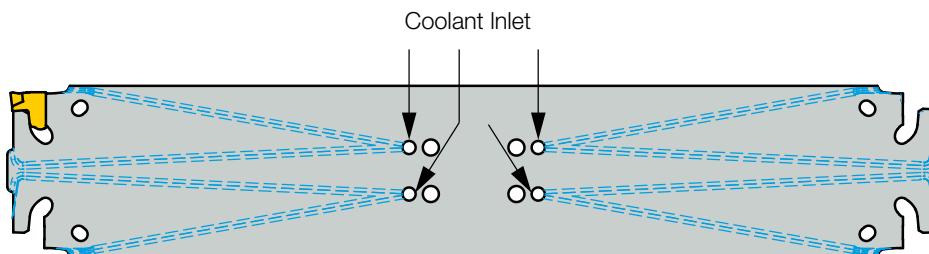
For holders: TGTBU

TGSU 35-3-IQ-4
TGSU 35-4-IQ-4



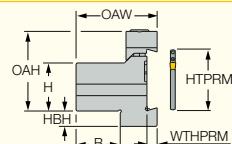
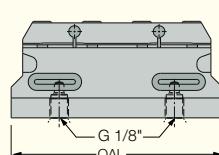
TGSU 35-3/4-4Z-JHP

NEW



TGTBU-JHP

Tool Blocks for Parting and Grooving
Blades for High Pressure Coolant



Choose blade by B1 dimension

Designation	H	B	HTPRM	OAW	OAH	HBH	WTHPRM	OAL	Image 1	Image 2	Image 3	Image 4
TGTBU 16-5G-JHP	16.0	16.9	26.0	35.60	29.9	13.1	4.10	86.00	BKU 86	SR M6X16 DIN912	HW 5.0	OR 14X2.5N N
TGTBU 20-5G-JHP	20.0	20.9	26.0	39.60	33.9	9.1	4.10	86.00	BKU 86	SR M6X16 DIN912	HW 5.0	OR 14X2.5N N
TGTBU 20-35-JHP	20.0	19.0	35.0	38.00	32.3	23.7	6.00	110.00				
TGTBU 20-6G-JHP	20.0	19.0	32.0	39.20	36.4	15.0	5.30	100.00	BKU 100	SR M6X16 DIN912	HW 5.0	OR 14X2.5N N
TGTBU 25-5G-JHP	25.0	26.1	26.0	44.10	39.0	5.5	4.10	110.00	BKU 105	SR M6X16 DIN912	HW 5.0	OR 14X2.5N N
TGTBU 25-6G-JHP	25.0	23.0	32.0	43.20	41.4	8.0	5.30	110.00	BKU 110	SR M6X16 DIN912	HW 5.0	OR 14X2.5N N
TGTBU 25-35-JHP	25.0	23.0	35.0	42.00	37.3	18.7	6.00	110.00				
TGTBU 32-6G-JHP	32.0	29.0	32.0	49.20	48.4	5.0	5.30	110.00	BKU 110	SR M6X16 DIN912	HW 5.0	OR 14X2.5N N
TGTBU 32-35-JHP	32.0	29.0	35.0	48.00	44.3	11.7	6.00	110.00				

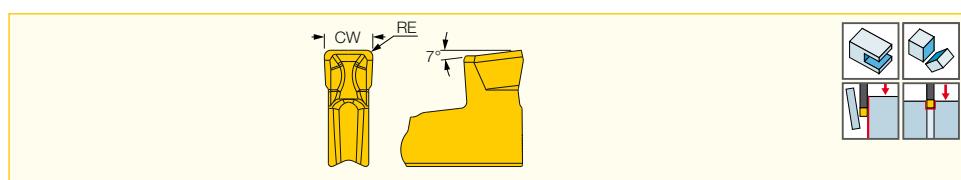
NEW

NEW

NEW

TANGFGRIP
HIGH FEED PARTING**TAG N-HF**

Single-Ended Inserts for High Feed Parting, Grooving and Slitting Bars, Hard Materials and Tough Applications



Designation	Dimensions			Tough ↪ Hard		Recommended Machining Data
	CW	CWTOL ⁽¹⁾	RE	IC830	IC808	
TAG N3HF	3.00	0.040	0.40	•	•	0.25-0.35
TAG N4HF	4.00	0.040	0.50	•	•	0.30-0.40
TAG N5HF	5.00	0.040	0.50	•	•	0.30-0.45

• Feed values for grade IC20 should be decreased by 50%

⁽¹⁾ Cutting width tolerance (+/-)





Compact Modular Adapters for Parting & Grooving Grip Master



**Extra Compact Flat Bottom
Modular Holder Carries Cartridges
for Parting and Grooving**



Ease of Use



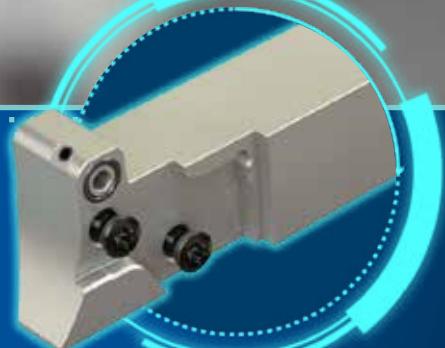
Variety of
Cartridges on Shank



High Pressure
Coolant



Cost Effective
Insert



Left & Right Capability to
Machine Next to Shoulder

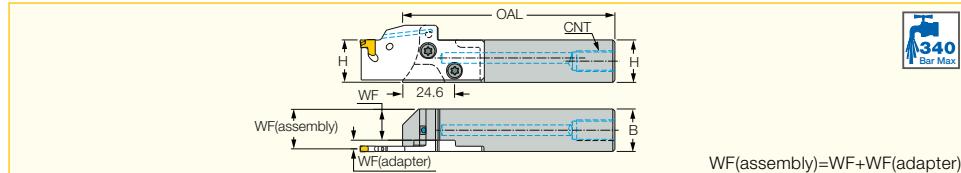
LOGIQGRIP
ISCAR CHESS LINES

MODUGRIP

MODULAR GRIP CARTRIDGES

NMAHR/L-JHP

Holders with High Pressure Coolant Channels for MODU-GRIP Adapters



Designation	H	B	OAL	WF	CNT
NMAHR/L 20-MG-JHP	20.0	20.0	100.00	14.70	G1/8
NMAHR/L 25-MG-JHP	25.0	25.0	100.00	19.70	G1/8

Spare Parts

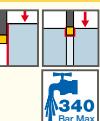
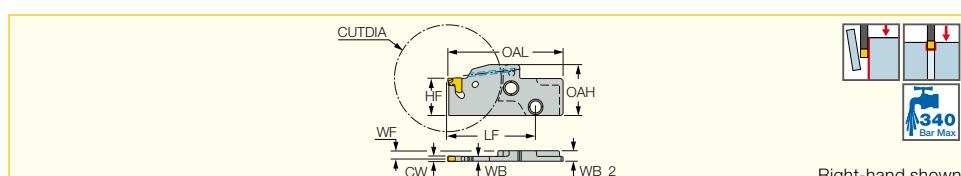
Designation	SR M5-04451	SW6-T-SH	BLD T20/S7	OR 5X1N
NMAHL 20-MG-JHP	SR M5-04451	SW6-T-SH	BLD T20/S7	OR 5X1N
NMAHL 25-MG-JHP	SR M5-04451	SW6-T-SH	BLD T20/S7	OR 5X1N
NMAHR 25-MG-JHP	SR M5-04451	SW6-T-SH	BLD T20/S7	OR 5X1N

MODUGRIP

MODULAR GRIP CARTRIDGES

TGAD RE/LE-JHP

Parting and Grooving Adapters with Channels for High Pressure Coolant Carrying TANG-GRIP Inserts



Designation	CWN ⁽¹⁾	CWX ⁽²⁾	WF	WB	WB_2	LF	OAL	OAH	HF	CUTDIA	Insert
TGAD 2R/LE-D54-JHP	1.80	2.40	4.48	1.65	5.3	44.40	58.30	25.8	18.9	54.0	TAG 2
TGAD 3R/LE-D54-JHP	2.80	3.50	4.08	2.45	5.3	44.40	58.30	25.8	18.9	54.0	TAG 3

⁽¹⁾ Cutting width minimum ⁽²⁾ Cutting width maximum

Spare Parts

Designation	ETG 3-4-SH*
TGAD RE/LE-JHP	ETG 3-4-SH*

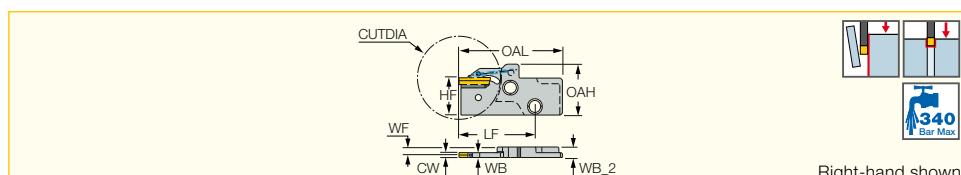
* Optional, should be ordered separately

MODUGRIP

MODULAR GRIP CARTRIDGES

D/HGAD RE/LE-JHP

Parting and Grooving Adapters with Channels for High Pressure Coolant Carrying DO-GRIP Inserts



Designation	CWN ⁽¹⁾	CWX ⁽²⁾	WF	WB	WB_2	LF	OAL	OAH	HF	CUTDIA	Insert
DGAD 2R/LE-D38-JHP	1.90	2.50	4.50	1.60	5.3	40.40	54.35	25.8	18.9	38.0	DGN 2
DGAD 3R/LE-D38-JHP	3.00	3.18	4.08	2.45	5.3	40.40	54.35	25.8	18.9	38.0	DGN 3
HGAD 3R/LE-D42-JHP	3.00	3.00	4.08	2.45	5.3	38.40	52.35	25.8	18.9	42.0	HGN 3

⁽¹⁾ Cutting width minimum ⁽²⁾ Cutting width maximum

Spare Parts

Designation	EDG 33A*
DGAD 2LE-D38-JHP	EDG 33A*
DGAD 2RE-D38-JHP	EDG 33A*
DGAD 3LE-D38-JHP	EDG 33A*
DGAD 3RE-D38-JHP	EDG 33A*
HGAD 3LE-D42-JHP	EDG 23B*
HGAD 3RE-D42-JHP	EDG 23B*

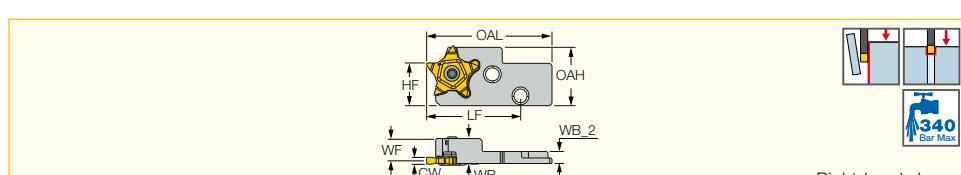
* Optional, should be ordered separately

MODUGRIP

MODULAR GRIP CARTRIDGES

PCAD RE/LE-JHP

Parting and Grooving Adapters with Channels for High Pressure Coolant Carrying PENTA 24 Inserts



Designation	CWN ⁽¹⁾	CWX ⁽²⁾	WF	WB	WB_2	LF	OAL	OAH	HF	Insert
PCAD 24R/LE-JHP	0.50	3.18	5.20	11.00	5.3	41.40	55.30	25.8	18.9	PENTA 24

⁽¹⁾ Cutting width minimum ⁽²⁾ Cutting width maximum

Spare Parts

Designation	SR 16-212-01397	T-2010/5
PCAD RE/LE-JHP	SR 16-212-01397	T-2010/5

Anti-Vibration Grip **Whisper Master**



**Unique Anti-Vibration
Blades for Deep Parting &
Deep Grooving Applications**



Internal
Coolant



High Productivity



Deep Parting
and Grooving

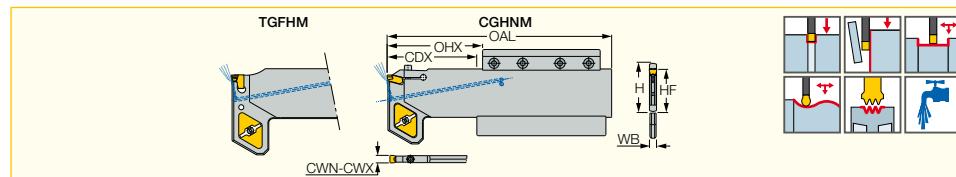


High Efficiency
in Large Overhangs

**Innovative Counterweight Design
to Compensate Oscillation**

Anti-Vibration Blades

Anti-Vibration Blades for Deep Grooving and Turning



Designation	CWN	CWX	OHX	CDX	WB	HF	H	OAL	Insert	EDG	ETG
CGHNM 53-6DG-AV	5.50	6.40	100.0	93.00	5.20	45.0	52.6	235.00	GIMF/N 6	EDG 44A*	
TGFHM 53K-8-AV	7.70	9.00	100.0	93.00	7.40	45.0	52.6	235.00	TAG/TAGB 8		ETG 8-12*
CGHNM 53-P8-AV	8.00	8.00	100.0	93.00 ⁽¹⁾	7.40	45.0	52.6	235.00	GIMY/F/MM 8	HW 4.0	

⁽¹⁾ For D<200 Tmax-r=98

*Optional, should be ordered separately

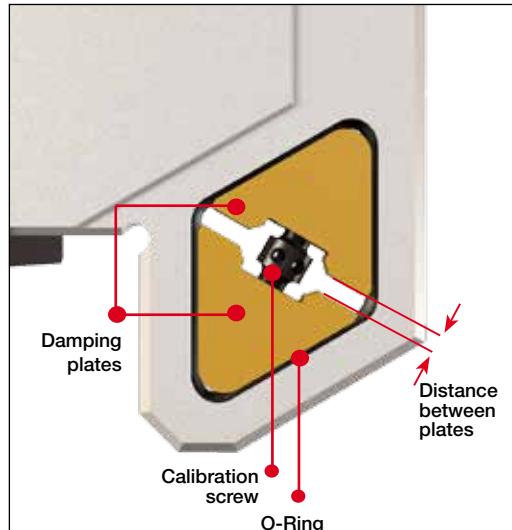
User Guide

- RPM is one of the most important factors that affect vibrations. In order to maintain a stable and controlled machining process in deep grooving applications, the WHISPERLINE blade should be applied at a constant RPM instead of constant cutting speed. In case of vibrations, the first step an operator should do is to reduce the RPM.
- Each blade is pre-calibrated by ISCAR for optimal performance at an overhang of 100mm. Even though this calibration is suitable for a wide range of overhangs, end-users can perform fine tuning calibration themselves if necessary.

Fine Tuning Calibration

Before starting calibration, measure the gap between the plates. This will enable restoration of the initial setup in case the calibration did not improve the situation.

- If the blade's overhang is smaller than 100mm, it is recommended to increase the compression of the O-ring by rotating the calibration screw clockwise (make sure the distance between the damping plates increases).



- If the blade's overhang is bigger than 100mm, it is recommended to decrease the compression of the O-ring by rotating the calibration screw counter clockwise (make sure the distance between the damping plates decreases).
- The fine tuning resolution should be about a half-turn for each 30mm difference in the overhang. For example, for an overhang of 70mm the calibration screw should be half-turned clockwise.



LOGIQMILL

ISCAR CHESS LINES



High Productivity



For All
Materials



New Generation



Cost Effective
Insert

MACHINING IN DUSTRY 4.0 TELLIGENTLY

Miniature Sized 8-10 mm 90° Endmill Line Nano Master



**Smallest Indexable Insert Combined
with Small Diameter Multi-Toothed
Endmill for 90° Shoulder Milling**



Extra Positive
Cutting Edge



Very Strong and
Durable Insert



New Generation
Insert



Performs
90° Shoulder

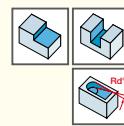
Triangular Insert
with No Hole

NANMILL

NANO ENDMILL

HM390 ETP-04

90° Small Diameter Endmills Carrying HM390 TPKR 0401 Triangular Inserts with 3 Helical Cutting Edges



Designation	DC	APMX	CICT ⁽¹⁾	OAL	LH	DCONMS	Shank ⁽²⁾	RMPX ⁽³⁾	kg
HM390 ETP D08-2-C08-04	8.00	3.00	2	60.00	12.0	8.00	C	3.0	0.02
HM390 ETP D10-3-C10-04	10.00	3.00	3	80.00	15.0	10.00	C	2.5	0.05

- Tightening torque 0.45 Nxm

(1) Number of inserts

(2) C-Cylindrical, W-Weldon

(3) Ramping angle maximum

Spare Parts

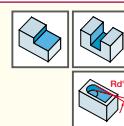
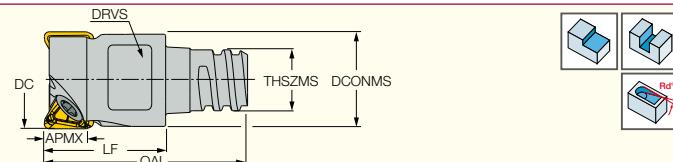
Designation		
HM390 ETP-04	SR M2X0.4-3 T6	T-6/5 MAGNET 3X3

NANMILL

NANO ENDMILL

HM390 ETP-MM-04

90° Endmills with a MULTI-MASTER Threaded Adaptation Carrying HM390 TPKR 0401... Triangular Inserts



Designation	DC	APMX	CICT ⁽¹⁾	LF	DCONMS	THSZMS	OAL	DRVS ⁽²⁾	RMPX ⁽³⁾
HM390 ETP D08-2-MMT05-04	8.00	3.00	2	10.00	7.60	T05	16.75	6.0	3.0
HM390 ETP D10-3-MMT06-04	10.00	3.00	3	12.00	9.60	T06	18.30	8.0	2.5

- Insert tightening torque 0.45 N*m

(1) Number of inserts

(2) Key flat size

(3) Ramping angle maximum

(4) Item weight

Spare Parts

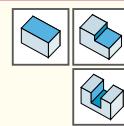
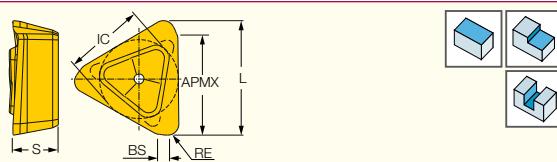
Designation		
HM390 ETP-MM-04	SR M2X0.4-3 T6	T-6/5 MAGNET 3X3

NANMILL

NANO ENDMILL

HM390 TPKR 0401

Triangular Miniature Inserts with 3 Helical Cutting Edges for 90° Shoulders



Designation	Dimensions							IC830	Recommended Machining Data	
	L	IC	S	APMX	RE	BS			a_p (mm)	f_z (mm/t)
HM390 TPKR 0401-PCTR	4.00	2.80	1.60	3.00	0.40	0.40	●	0.50-3.00	0.04-0.10	

Miniature 10-16 mm Endmill Line **Heli Master**



The **Smallest Helical Indexable**
Multi-Toothed Endmill for
90° Shoulder Milling



High Positive
Rake



Large
Diameter Core



Performs
90° Shoulder



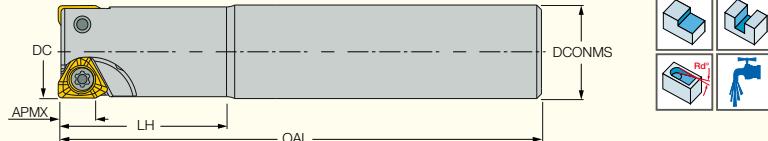
Cost Effective
Insert

Miniature Insert for Small
Diameter Endmills
Depth of Cut up to 3.5 mm



HM390 ETP-05

90° Endmills Carrying HM390
TPKT 0502 Triangular Inserts
with 3 Helical Cutting Edges



Designation	DC	APMX	CICT ⁽¹⁾	OAL	LH	DCONMS	Shank ⁽²⁾	RMPX ⁽³⁾	kg
HM390 ETP D10-02-C10-05-C	10.00	3.50	2	70.00	18.0	10.00	C	2.0	0.03
HM390 ETP D12-03-C12-05-C	12.00	3.50	3	70.00	18.0	12.00	C	1.5	0.06
HM390 ETP D14-03-C14-05-C	14.00	3.50	3	80.00	20.0	14.00	C	1.5	0.08
HM390 ETP D16-04-C16-05-C	16.00	3.50	4	90.00	20.0	16.00	C	1.5	0.12

- Tightening torque 0.5 N·m

(1) Number of inserts

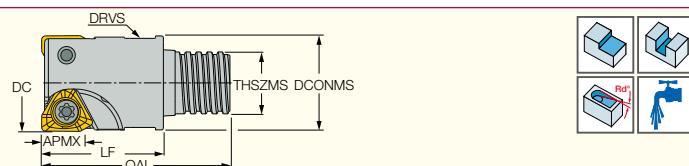
(2) C-Cylindrical, W-Weldon

(3) Ramping angle maximum



HM390 ETP-MM-05

90° Endmills with a MULTI-MASTER Threaded Adaptation Carrying HM390 TPKT 0502... Triangular Inserts



Designation	DC	APMX	CICT ⁽¹⁾	LF	DCONMS	THSZMS	OAL	DRVS ⁽²⁾	RMPX ⁽³⁾
HM390 ETP D10-02-MMT06-05	10.00	3.50	2	15.00	9.60	T06	21.60	8.0	2.0
HM390 ETP D12-03-MMT08-05	12.00	3.50	3	16.00	11.60	T08	24.20	10.0	1.5
HM390 ETP D14-03-MMT08-05	14.00	3.50	3	16.00	13.60	T08	22.90	10.0	1.5
HM390 ETP D16-04-MMT10-05	16.00	3.50	4	18.00	15.60	T10	29.80	13.0	1.5

- Insert tightening torque 0.5 N·m

(1) Number of inserts

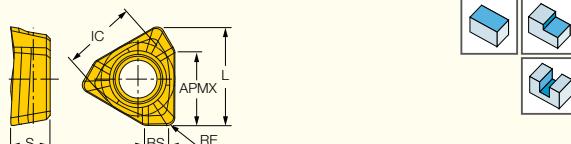
(2) Key flat size

(3) Ramping angle maximum



HM390 TPKT 0502

Triangular Inserts with 3 Helical Cutting Edges for 90° Shoulder Accuracy

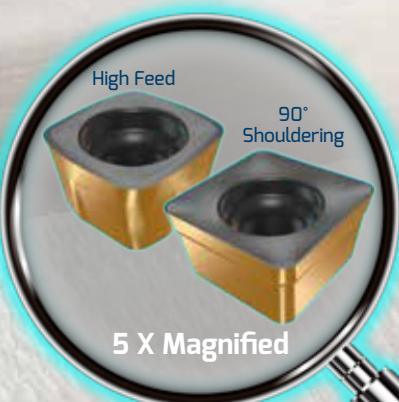


Designation	Dimensions						Tough	Hard	Recommended Machining Data	
	L	IC	S	APMX	RE	BS			a _p (mm)	f _z (mm/t)
HM390 TPCT 0502PDR	5.26	3.94	2.10	3.50	0.40	1.00	●	IC808	IC810	0.50-3.50 / 0.05-0.10
HM390 TPKT 0502PDR	5.26	3.94	2.10	3.50	0.40	1.00	●	●	●	0.50-3.50 / 0.05-0.10

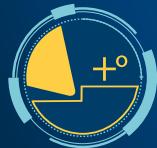
Extra Small 10-20 mm SQ Master



Endmills and Multi-Master Range
10 -20mm



**Two Small Quad Inserts for
90° Shouldering and High Feed
Fit the Same Endmill**



Positive Rake Angle



High Pressure Coolant



Performs 90° Shoulder

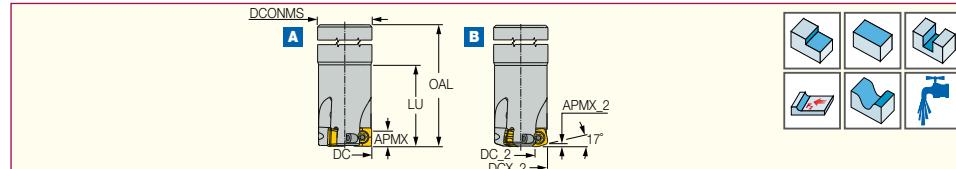


Cost Effective Insert

Small Quad Insert with
4 Cutting Edges

**E90SO-04**

Endmills Carrying Inserts for Shouldering and Fast Feed Applications



Designation	DC	APMX	DC ₂	DCX ₂	APMX ₂	LU	OAL	DCONMS	Shank ⁽¹⁾	CICT ⁽²⁾	WT ⁽³⁾
E90SO D10-2-C10-04-C	10.00	3.50	4.40	10.00	0.50	18.0	70.00	10.00	C	2	0.04
E90SO D12-2-C12-04-C	12.00	3.50	6.40	12.00	0.50	18.0	70.00	12.00	C	2	0.05
E90SO D12-3-C12-04-C	12.00	3.50	6.40	12.00	0.50	18.0	70.00	12.00	C	3	0.05
E90SO D14-4-C14-04-C	14.00	3.50	8.40	14.00	0.50	20.0	80.00	14.00	C	4	0.08
E90SO D16-4-C16-04-C	16.00	3.50	10.40	16.00	0.50	20.0	90.00	16.00	C	4	0.12
E90SO D16-5-C16-04-C	16.00	3.50	10.40	16.00	0.50	20.0	90.00	16.00	C	5	0.12
E90SO D20-6-C20-04-C	20.00	3.50	14.40	20.00	0.50	25.0	110.00	20.00	C	6	0.23

• A - with SOMT/CT 0402 insert • B - with SOMT 0402-FF insert • Tightening torque 0.5 Nxm

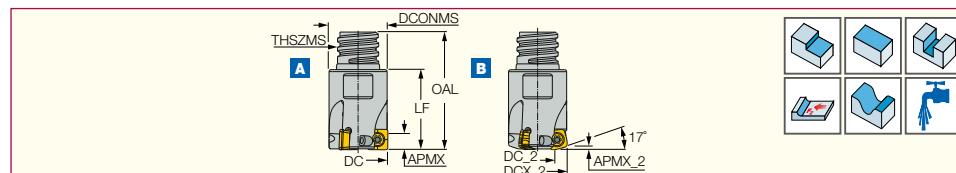
(1) C-Cylindrical

(2) Number of inserts

(3) Item weight

**E90SO-MM-04**

Endmills with a MULTI-MASTER Connection Carrying Inserts for Shouldering and Fast Feed Applications



Designation	DC	APMX	DC ₂	DCX ₂	APMX ₂	LF	OAL	CICT ⁽¹⁾	DCONMS	THSZMS	DRVS ⁽²⁾	WT ⁽³⁾
E90SO D10-2-MMT06-04	10.00	3.50	4.40	10.00	0.50	15.00	21.30	2	9.70	T06	8.0	0.07
E90SO D12-3-MMT08-04	12.00	3.50	6.40	12.00	0.50	16.00	23.50	3	11.60	T08	10.0	0.15
E90SO D14-4-MMT08-04	14.00	3.50	8.40	14.00	0.50	16.00	23.50	4	13.60	T08	10.0	0.16
E90SO D16-5-MMT10-04	16.00	3.50	10.40	16.00	0.50	18.00	29.30	5	15.60	T10	13.0	0.26

• A - with SOMT/CT 0402 insert • B - with SOMT 0402-FF insert

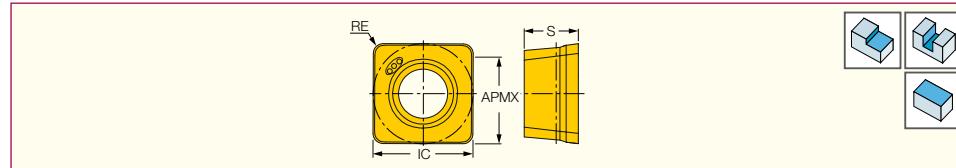
(1) Number of inserts

(2) Key flat size

(3) Item weight

**SOMT/CT 0402**

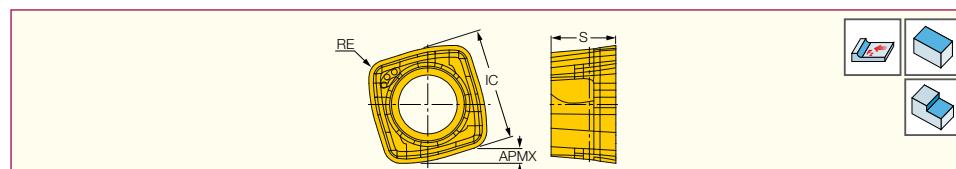
Square Milling Inserts for General Use



Designation	Dimensions				Tough ↯ Hard	Recommended Machining Data				
	APMX	RE	IC	S		IC830	IC808	IC810	ap (mm)	fz (mm/t)
SOCT 040204 PNR	3.50	0.40	4.07	2.20		●			0.50-3.50	0.05-0.10
SOMT 040204 PNTR	3.50	0.40	4.07	2.20		●	●	●	0.50-3.50	0.05-0.10

**SOMT 0402-FF**

Square Milling Inserts for Fast Feed Milling

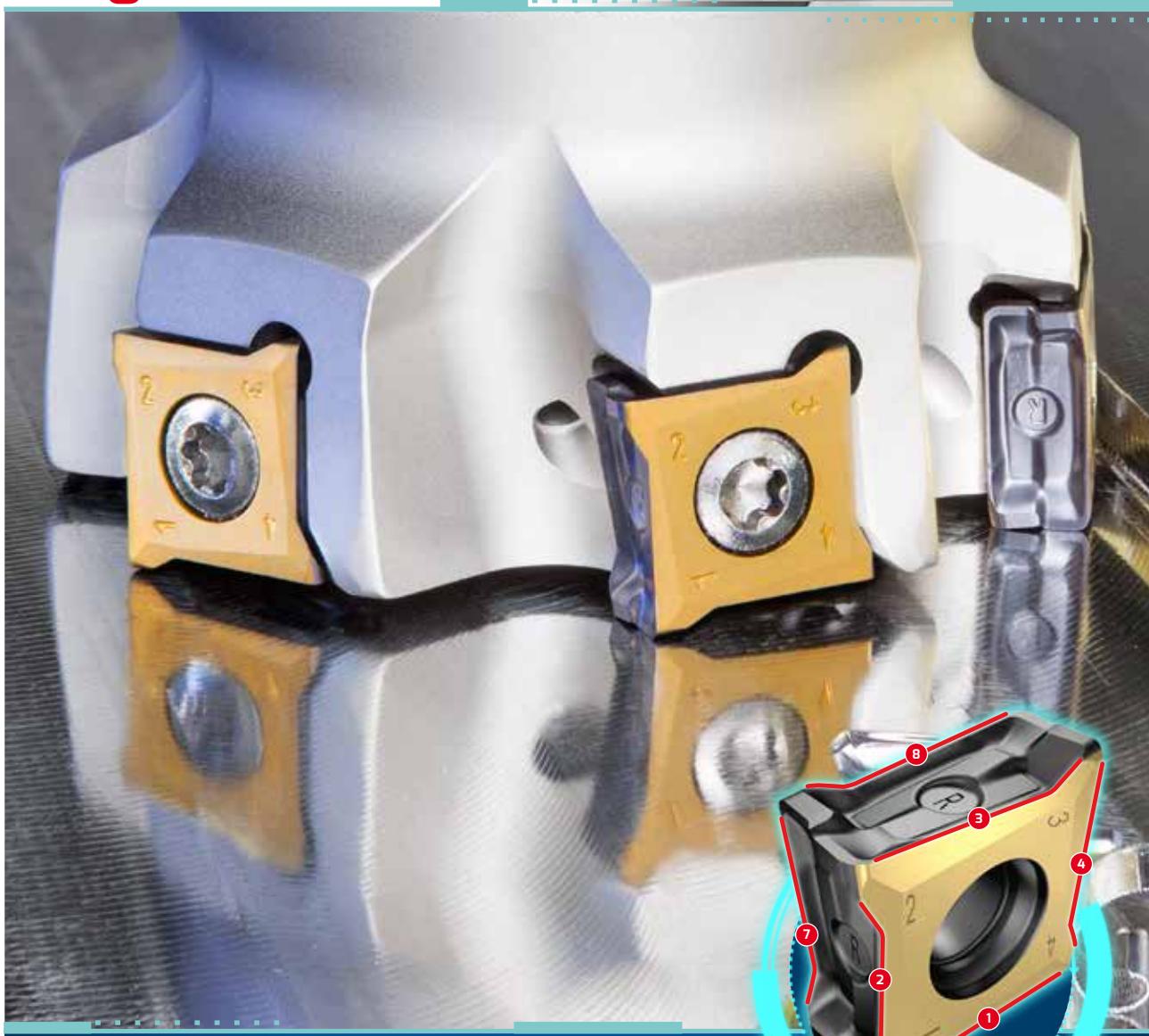


Designation	Dimensions					IC830	Recommended Machining Data	
	IC	APMX	RE	R ₀ ⁽¹⁾	S		ap (mm)	fz (mm/t)
SOMT 040206 PNR-FF	3.80	0.50	0.60	1.00	2.20	●	0.20-0.50	0.30-0.50

(1) Radius for programming

LOGIQ8TANG
T890 MILLING LINE

**90° 8 Cutting Edged Insert
32-160 mm Dia. Range
Tangential Master**



**Tangential Cost Effective Insert
with 8 Cutting Edges for
90° Shoulder Milling**

8 Cutting Edges



Tangential
Advantage



Large Body
Core



Performs
90° Shoulder



Dovetail

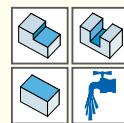
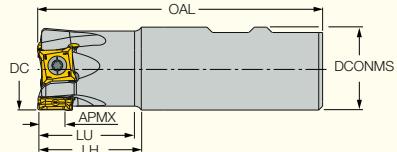


**SCAN
NOW!**

LOGIQMILL
ISCAR CHESS LINES

T890HT ELN-R13

90° Endmills Carrying T890 LN.T
 1306... Tangentially Clamped
 Inserts with 8 Cutting Edges



Designation	DC	APMX	CICT ⁽¹⁾	DCONMS	Shank ⁽²⁾	LU	LH	OAL	WT ⁽³⁾
T890HT ELN D32-3-C32-13	32.00	9.50	3	32.00	C	37.4	40.0	130.00	0.68
T890HT ELN D32-3-C32-13B	32.00	9.50	3	32.00	C	47.4	50.0	250.00	1.43
T890HT ELN D32-3-W32-13	32.00	9.50	3	32.00	W	37.4	40.0	110.00	0.56
T890HT ELN D40-4-C32-13	40.00	9.50	4	32.00	C	-	44.0	130.00	0.12
T890HT ELN D40-4-W32-13	40.00	9.50	4	32.00	W	-	40.0	115.00	0.69

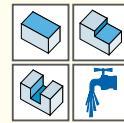
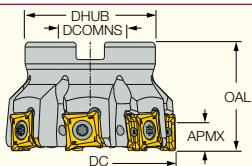
⁽¹⁾ Number of inserts ⁽²⁾ C-Cylindrical, W-Weldon ⁽³⁾ Item weight

Spare Parts

Designation			
T890HT ELN D32-3-C32-13	SR 10513105	BLD IP20/M7	SW6-T-SH
T890HT ELN D32-3-C32-13B	SR 10513105	BLD IP20/M7	SW6-T-SH
T890HT ELN D32-3-W32-13	SR 10513105	BLD IP20/M7	SW6-T-SH
T890HT ELN D40-4-C32-13	SR 10513105	BLD IP20/M7	SW6-T-SH
T890HT ELN D40-4-W32-13	SR 10513105	BLD IP20/M7	SW6-T-SH

T890HT FLN-R13

90° Face Mills Carrying
 T890 LN.T 1306...
 Tangentially Clamped Inserts
 with 8 Cutting Edges

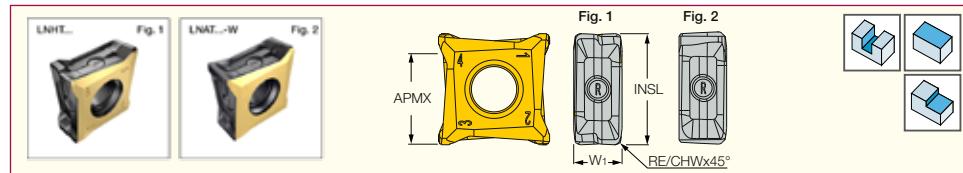


Designation	DC	APMX	CICT ⁽¹⁾	DCONMS	DHUB	OAL	Arbor	kg
T890HT FLN D040-03-16-R13	40.00	9.50	3	16.00	38.00	40.00	A	0.22
T890HT FLN D040-04-16-R13	40.00	9.50	4	16.00	38.00	40.00	A	0.21
T890HT FLN D040-05-16-R13	40.00	9.50	5	16.00	38.00	40.00	A	0.21
T890HT FLN D050-04-22-R13	50.00	9.50	4	22.00	48.00	40.00	A	0.33
T890HT FLN D050-05-22-R13	50.00	9.50	5	22.00	48.00	40.00	A	0.33
T890HT FLN D050-06-22-R13	50.00	9.50	6	22.00	48.00	40.00	A	0.35
T890HT FLN D063-06-22-R13	63.00	9.50	6	22.00	48.00	40.00	A	0.48
T890HT FLN D063-07-22-R13	63.00	9.50	7	22.00	48.00	40.00	A	0.48
T890HT FLN D063-08-22-R13	63.00	9.50	8	22.00	48.00	40.00	A	0.50
T890HT FLN D080-06-27-R13	80.00	9.50	6	27.00	60.00	50.00	B	0.88
T890HT FLN D080-07-27-R13	80.00	9.50	7	27.00	60.00	50.00	B	0.89
T890HT FLN D080-09-27-R13	80.00	9.50	9	27.00	60.00	50.00	B	0.91
T890HT FLN D100-08-32-R13	100.00	9.50	8	32.00	78.00	50.00	B	1.49
T890HT FLN D100-12-32-R13	100.00	9.50	12	32.00	78.00	50.00	B	1.62
T890HT FLN D125-09-40-R13	125.00	9.50	9	40.00	92.00	63.00	B	2.83
T890HT FLN D125-15-40-R13	125.00	9.50	15	40.00	92.00	63.00	B	2.93

⁽¹⁾ Number of inserts

Spare Parts

Designation				
T890HT FLN D040-03-16-R13	SR 10513105-L10.5	BLD IP20/M7	SW6-T-SH	SR M8X30DIN912
T890HT FLN D040-04-16-R13	SR 10513105-L10.5	BLD IP20/M7	SW6-T-SH	SR M8X30DIN912
T890HT FLN D040-05-16-R13	SR 10513105-L10.5	BLD IP20/M7	SW6-T-SH	SR M8X30DIN912
T890HT FLN D050-04-22-R13	SR 10513105	BLD IP20/M7	SW6-T-SH	SR M10X25 DIN912
T890HT FLN D050-05-22-R13	SR 10513105	BLD IP20/M7	SW6-T-SH	SR M10X25 DIN912
T890HT FLN D050-06-22-R13	SR 10513105	BLD IP20/M7	SW6-T-SH	SR M10X25 DIN912
T890HT FLN D063-06-22-R13	SR 10513105	BLD IP20/M7	SW6-T-SH	SR M10X25 DIN912
T890HT FLN D063-07-22-R13	SR 10513105	BLD IP20/M7	SW6-T-SH	SR M10X25 DIN912
T890HT FLN D063-08-22-R13	SR 10513105	BLD IP20/M7	SW6-T-SH	SR M10X25 DIN912
T890HT FLN D080-06-27-R13	SR 10513105	BLD IP20/M7	SW6-T-SH	
T890HT FLN D080-09-27-R13	SR 10513105	BLD IP20/M7	SW6-T-SH	
T890HT FLN D100-08-32-R13	SR 10513105	BLD IP20/M7	SW6-T-SH	
T890HT FLN D100-12-32-R13	SR 10513105	BLD IP20/M7	SW6-T-SH	
T890HT FLN D125-09-40-R13	SR 10513105	BLD IP20/M7	SW6-T-SH	
T890HT FLN D125-15-40-R13	SR 10513105	BLD IP20/M7	SW6-T-SH	



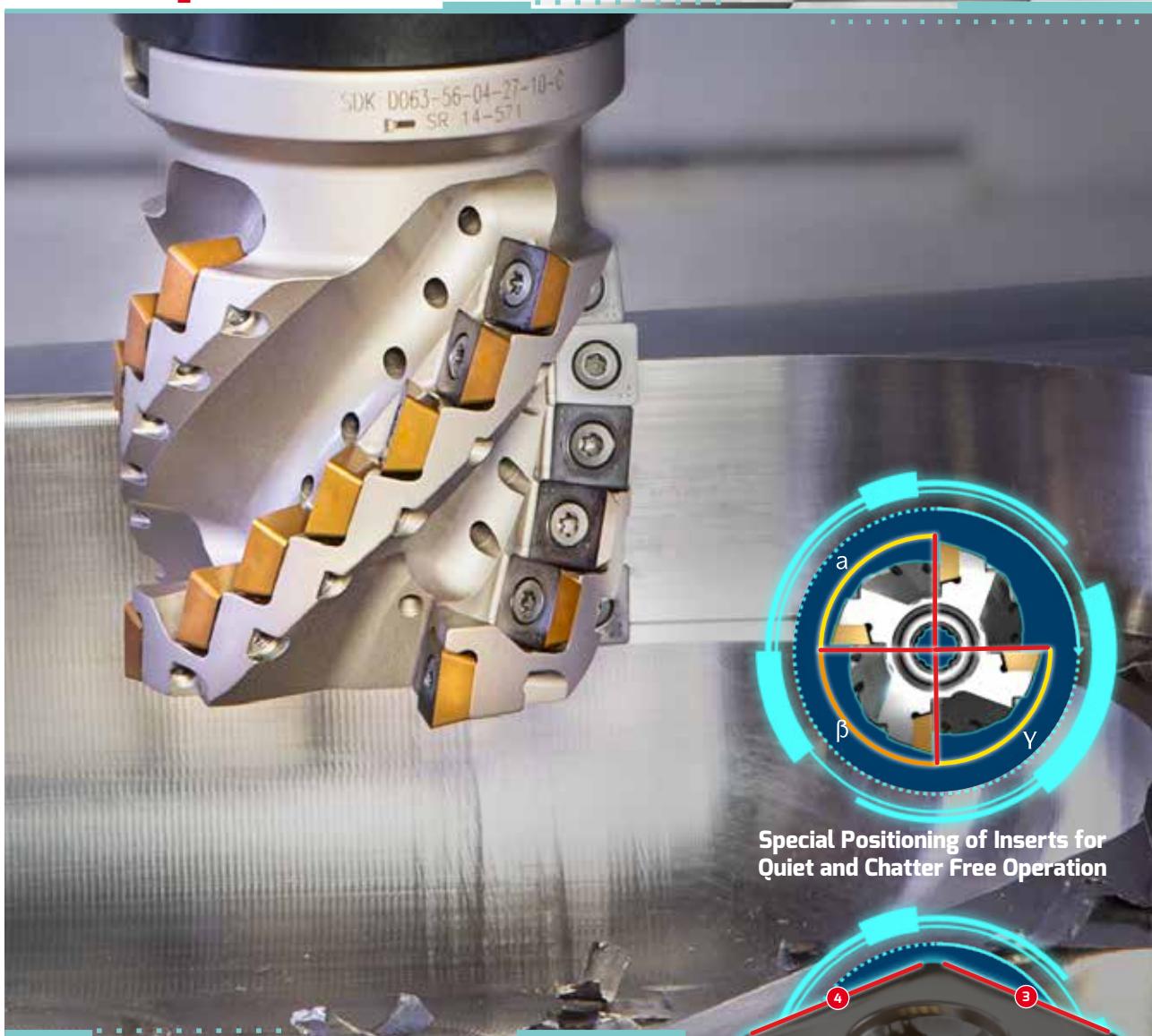
Designation	Dimensions						Tough Hard					Recommended Machining Data		
	APMX	INSL	W ₁	RE	CHW	Fig.	IC845	IC830	IC5400	IC5500	IC808	IC810	a _p (mm)	f _z (mm/t)
T890 LNHT 1306PNTR	9.50	13.78	6.00	0.80	-	1	●	●	●	●	●	●	1.00-9.50	0.10-0.20
T890 LNAT 1306PN-W⁽¹⁾	9.50	13.92	5.90	-	0.60	2					●		0.50-1.00	0.10-0.20

⁽¹⁾ A wiper insert (5.9 mm long), 4 cutting edges, for finishing only





Extended Flute Milling Dia 50-100 mm Aerospace Master



Special Positioning of Inserts for
Quiet and Chatter Free Operation

Extended Flute for
Aerospace Parts Machining
High Productivity Metal Removal



4 Cutting Edged
Square Insert



Easy Chip
Evacuation



For Exotic
Materials



High Pressure
Coolant

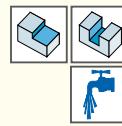
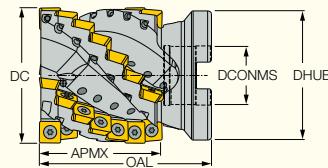


Cost Effective
Insert

LOGIQMILL
ISCAR CHESS LINES



EXTENDED FLUTE

SDK-10-C/HPExtended Flute Shell Mills Carrying
SDHW/T 100408... Inserts

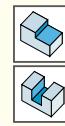
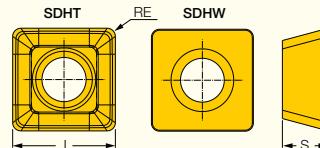
Designation	DC	APMX	NOF ⁽²⁾	CICT ⁽³⁾	OAL	DCONMS	DHUB	Arbor	kg
SDK D050-48-03-22-10-C	50.00	48.00	3	18	75.00	22.00	48.00	A	0.54
SDK D050-48-03-27-10-C	50.00	48.00	3	18	80.00	27.00	49.00	A	0.57
SDK D050-48-04-27-10-C	50.00	48.00	4	24	80.00	27.00	49.00	A	0.56
SDK D050-48-04-27-10-HP⁽¹⁾	50.00	48.00	4	24	80.00	27.00	49.00	A	0.57
SDK D063-56-04-27-10-C	63.00	56.00	4	28	80.00	27.00	60.00	A	0.90
SDK D080-64-05-32-10-C	80.00	64.00	5	40	85.00	32.00	78.00	A	1.61

⁽¹⁾ Designed with coolant nozzles for high pressure coolant⁽²⁾ Number of flutes⁽³⁾ Number of inserts**Spare Parts**

Designation	SR M3.5X0.6-L8.5 IP10	BLD IP10/S7	SW6-SD	SR M10X60DIN912
SDK D050-48-03-22-10-C	SR M3.5X0.6-L8.5 IP10	BLD IP10/S7	SW6-SD	
SDK D050-48-03-27-10-C	SR M3.5X0.6-L8.5 IP10	BLD IP10/S7	SW6-SD	
SDK D050-48-04-27-10-C	SR M3.5X0.6-L8.5 IP10	BLD IP10/S7	SW6-SD	
SDK D050-48-04-27-10-HP	SR M3.5X0.6-L8.5 IP10	BLD IP10/S7	SW6-SD	NOZZLE 1.2mm 5691 026-04
SDK D063-56-04-27-10-C	SR M3.5X0.6-L8.5 IP10	BLD IP10/S7	SW6-SD	
SDK D080-64-05-32-10-C	SR M3.5X0.6-L8.5 IP10	BLD IP10/S7	SW6-SD	



EXTENDED FLUTE

SDHW/T 100408Square Inserts for Machining
Titanium, High Temperature
Alloys and Stainless Steel

Designation	Dimensions			Tough	Hard	Recommended Machining Data
	L	S	RE	IC882	IC5820	
SDHT 100408-PDEN⁽¹⁾	10.00	4.50	0.80	●	●	0.05-0.10
SDHW 100408-TN⁽²⁾	10.00	4.50	0.80	●	●	0.05-0.12
SDHW 100408-TN-CS⁽³⁾	10.00	4.50	0.80		●	0.05-0.12

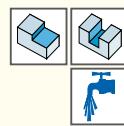
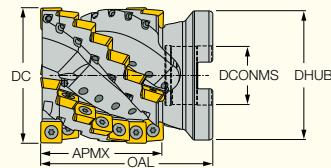
⁽¹⁾ First choice for machining stainless steel⁽²⁾ First choice for machining titanium⁽³⁾ Chip splitting cutting edge



EXTENDED FLUTE

SDK-12-C/HP

Extended Flute Shell Mills
Carrying SDHT 1205... Inserts



Designation	DC	APMX	NOF ⁽²⁾	CICT ⁽³⁾	OAL	DCONMS	DHUB	Arbor	kg
SDK D63-55-05-27-12-C	63.00	55.00	5	25	80.00	27.00	60.00	A	0.94
SDK D63-55-05-27-12-HP (1)	63.00	55.00	5	25	80.00	27.00	60.00	A	0.94
SDK D63-66-04-27-12-C	63.00	66.00	4	24	93.00	27.00	60.00	A	1.07
SDK D63-98-04-27-12-C	63.00	98.00	4	36	125.00	27.00	60.00	A	1.38
SDK D80-66-05-32-12-C	80.00	66.00	5	30	95.00	32.00	77.60	A	2.06
SDK D80-109-05-32-12-C	80.00	109.00	5	50	143.00	32.00	77.60	A	3.06
SDK D100-76-06-40-12-C	100.00	76.00	6	42	110.00	40.00	92.00	A	3.97
SDK D100-130-06-40-12-C	100.00	130.00	6	72	165.00	40.00	92.00	A	5.87

(1) With coolant nozzles for high pressure coolant

(2) Number of flutes

(3) Number of inserts

Spare Parts

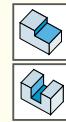
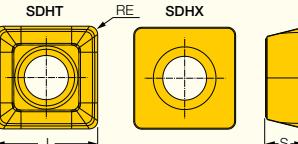
Designation	SR M4X0.7-L9.5 IP15-4623	BLD IP15/M7	SW6-T	
SDK D63-55-05-27-12-C	SR M4X0.7-L9.5 IP15-4623	BLD IP15/M7	SW6-T	
SDK D63-55-05-27-12-HP	SR M4X0.7-L9.5 IP15-4623	BLD IP15/M7	SW6-T	
SDK D63-66-04-27-12-C	SR M4X0.7-L9.5 IP15-4623	BLD IP15/M7	SW6-T	SR M12X80DIN912
SDK D63-98-04-27-12-C	SR M4X0.7-L9.5 IP15-4623	BLD IP15/M7	SW6-T	SR M12X110DIN912
SDK D80-66-05-32-12-C	SR M4X0.7-L9.5 IP15-4623	BLD IP15/M7	SW6-T	SR M16X70DIN912
SDK D80-109-05-32-12-C	SR M4X0.7-L9.5 IP15-4623	BLD IP15/M7	SW6-T	SR M16X120 DIN912
SDK D100-76-06-40-12-C	SR M4X0.7-L9.5 IP15-4623	BLD IP15/M7	SW6-T	
SDK D100-130-06-40-12-C	SR M4X0.7-L9.5 IP15-4623	BLD IP15/M7	SW6-T	



EXTENDED FLUTE

SDHT/X 120508

Square Inserts for Machining
Titanium, High Temperature
Alloys and Stainless Steel

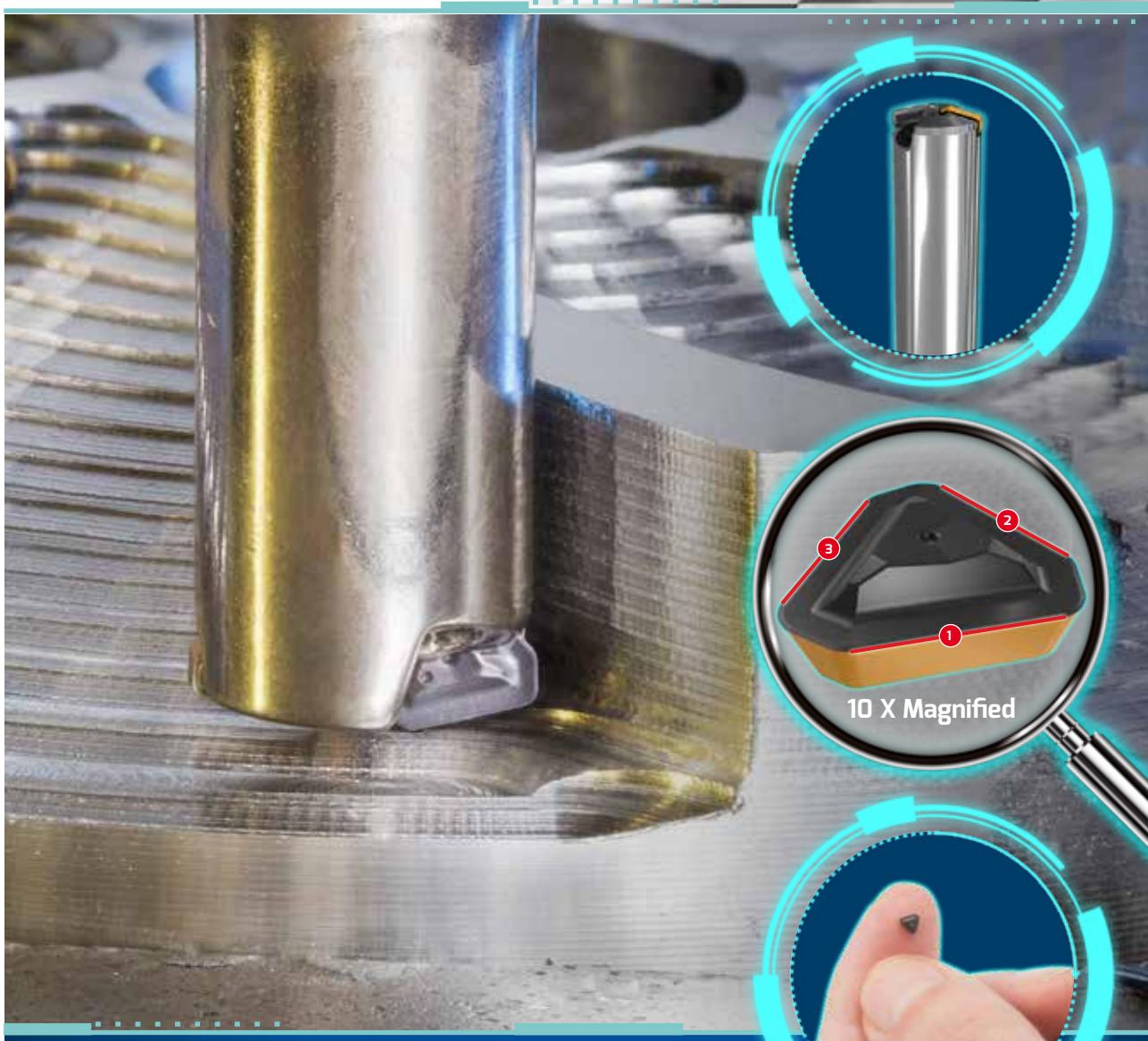


Designation	Dimensions			Tough	Hard	Recommended Machining Data
	L	S	RE	IC882	IC5820	
SDHT 120508-PDEN (1)	12.70	4.90	0.80		●	fz (mm/t) 0.05-0.15
SDHX 120508-PD-N (2)	12.70	4.94	0.80	●	●	0.05-0.15

(1) First choice for machining stainless steel

(2) First choice for machining titanium

Miniature 8-10 mm High Feed Endmill Line Nano Master



**Smallest Indexable Insert Combined
with Small Diameter Multi-Toothed
Endmill for High Feed and Productivity**

Triangular Insert
with No Hole



High Feed
Milling



Very Strong and
Durable Insert



High Ramp Down
Angle



Easy Chip
Evacuation



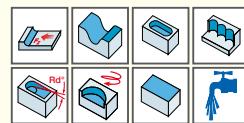
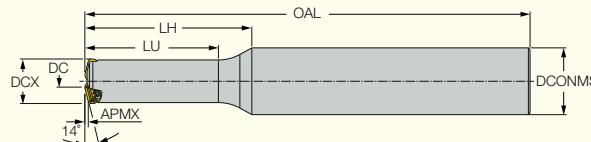
High Pressure
Coolant

NANFEED

NANO FEED MILL

FFT3 EFM-02

Small Diameter Endmills Carrying Single-Sided Triangular Inserts for Fast Feed Milling



Designation	DCX	DC	APMX	CICT ⁽¹⁾	LU	LH	OAL	DCONMS	Shank ⁽²⁾	RMPX ⁽³⁾	kg
FFT3 EFM D08-2-060-C10-02	8.00	2.20	0.60	2	17.0	20.0	60.00	10.00	C	10.8	0.03
FFT3 EFM D08-2-080-C12-02	8.00	2.20	0.60	2	26.0	30.0	80.00	12.00	C	10.8	0.10
FFT3 EFM D10-3-090-C10-02	10.00	4.20	0.60	3	40.0	40.0	90.00	10.00	C	4.7	0.12

• Radius for programming 1.1 mm

(1) Number of inserts

(2) C-Cylindrical, W-Weldon

(3) Ramping angle maximum

Spare Parts

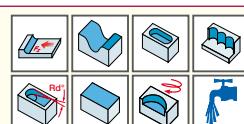
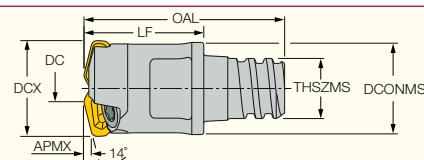
Designation		
FFT3 EFM-02	SR M2X0.4-2.9 T6-HG	T-6/5 MAGNET 3X3

NANFEED

NANO FEED MILL

FFT3 EFM-MM 02

Small Diameter Endmills with a MULTI-MASTER Threaded Adaptation Carrying Triangular Inserts for Fast Feed Milling



Designation	DCX	DC	APMX	CICT ⁽¹⁾	LF	DCONMS	THSZMS	OAL	DRVS ⁽²⁾	RMPX ⁽³⁾	kg
FFT3 EFMD08/.31-2MMT05-02	8.00	2.20	0.60	2	10.00	7.60	T05	16.75	5.5	10.8	0.01
FFT3 EFMD10/.39-3MMT06-02	10.00	4.20	0.60	3	10.00	9.70	T06	16.30	8.0	4.7	0.01

• Radius for programing 1.1 mm

(1) Number of inserts

(2) Key flat size

(3) Maximum ramping angle

Spare Parts

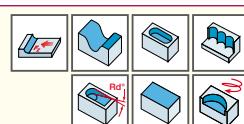
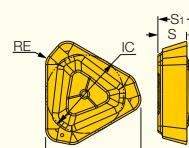
Designation		
FFT3 EFM-MM 02	SR M2X0.4-2.9 T6-HG	T-6/5 MAGNET 3X3

NANFEED

NANO FEED MILL

FFT3 TXMT 02

Triangular Miniature Inserts for Fast Feed Machining at Small Depth of Cut



Designation	Dimensions					IC830	Recommended Machining Data	
	INSL	IC	RE	S	S ₁		a _p (mm)	f _z (mm/t)
FFT3 TXMT 020105T	3.66	2.00	0.50	1.10	1.56	●	0.20-0.60	0.20-0.70

MICRO 3 FEED

MF 300 ENDMILL

Miniature High Feed 10-16 mm **Micro Master**



Multi-Toothed Small Diameter Tool
with Coolant Pinpointed to the
Cutting Edge



10 X Magnified

Unique Trigon Insert
with 3 Cutting Edges



Micro Sized Insert for
Depth of Cut up to 0.6mm
Feed up to 0.8mm per tooth



High Feed
Milling



High Positive
Rake Angle



High
Productivity



Through-Tool
Coolant

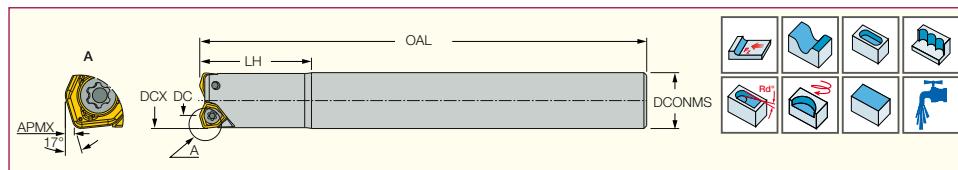
LOGIQMILL
ISCAR CHESS LINES

MICRO3FEED

MF 300 ENDMILL

FFT3 EFM-03

Endmills Carrying Single-Sided Small Trigon Inserts for Fast Feed Milling



Designation	DCX	DC	APMX	CICT ⁽¹⁾	LH	OAL	DCONMS	Shank ⁽²⁾	RMPX ⁽³⁾	kg
FFT3 EFM D10-2-080-C10-03	10.00	5.60	0.60	2	20.0	80.00	10.00	C	6.9	0.11
FFT3 EFM D12-3-120-C12-03	12.00	7.60	0.60	3	25.0	120.00	12.00	C	4.7	0.14
FFT3 EFM D16-4-140-C16-03	16.00	11.60	0.60	4	35.0	140.00	16.00	C	2.9	0.18

• Radius for programming 1.1 mm

(1) Number of inserts

(2) C-Cylindrical, W-Weldon

(3) Maximum ramping angle

Spare Parts

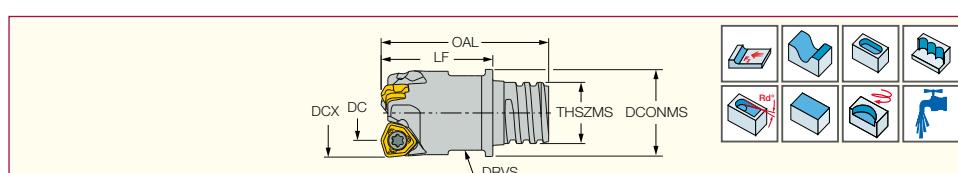
Designation		
FFT3 EFM-03	TS 18041I/HG	T-6IP/51

MICRO3FEED

MF 300 ENDMILL

FFT3 EFM-MM 03

Endmills with a MULTI-MASTER Threaded Adaptation Carrying Single-Sided Small Trigon Inserts for Fast Feed Milling



Designation	DCX	DC	APMX	CICT ⁽¹⁾	LF	DCONMS	THSZMS	OAL	DRVS ⁽²⁾	RMPX ⁽³⁾	kg
FFT3 EFMD10/.39-2MMT06-03	10.00	5.60	0.60	2	10.00	9.70	T06	16.30	8.0	6.9	0.02
FFT3 EFMD12/.47-3MMT08-03	12.00	7.60	0.60	3	15.00	11.70	T08	22.50	10.0	4.7	0.03
FFT3 EFMD16/.63-4MMT10-03	16.00	11.60	0.60	4	20.00	15.30	T10	31.30	13.0	2.9	0.05

• Radius for programming 1.1 mm

(1) Number of inserts

(2) Key flat size

(3) Maximum ramping angle

Spare Parts

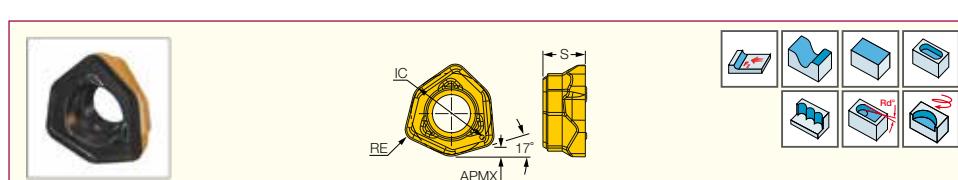
Designation		
FFT3 EFM-MM 03	TS 18041I/HG	T-6IP/51

MICRO3FEED

MF 300 ENDMILL

FFT3 WXMT 03

Single-Sided Small Trigon Inserts for Fast Feed Milling

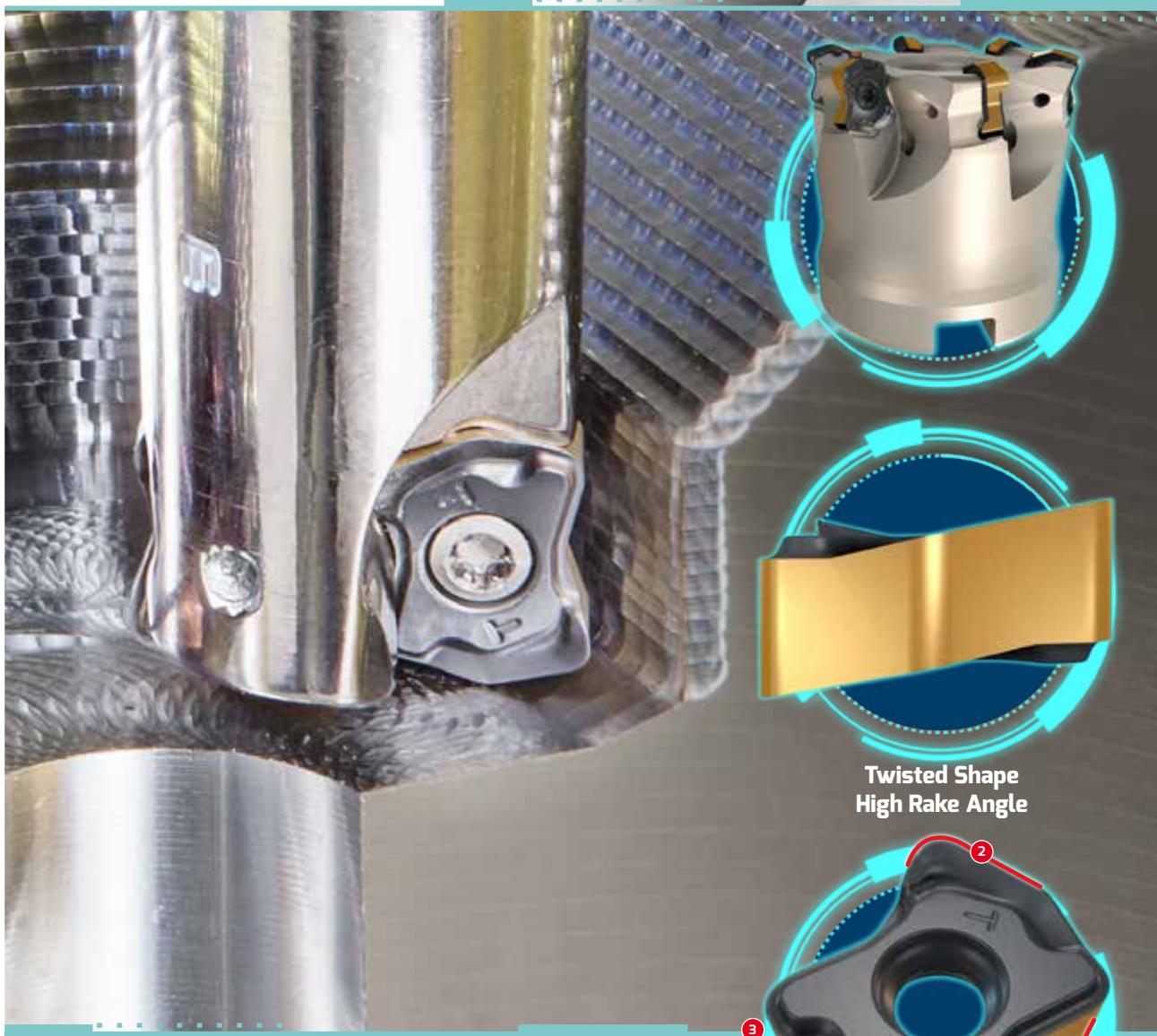


Designation	Dimensions				Tough ↪ Hard		Recommended Machining Data	
	IC	S	RE	APMX	IC830	IC808	a_p (mm)	f_z (mm/t)
FFT3 WXMT 030206T	4.20	2.20	0.60	0.60	●	●	0.20-0.60	0.20-0.80

LOGIQ4FEED

HIGH FEED MILLING

High Feed Milling 12-40 mm Twist Master



**Twisted Shape Insert for
High Feed Milling Guarantees
Higher Productivity**



High Feed
Milling



Large Body Core
Ensures Stability
and Rigidity



High Positive
Rake Angle



Double Sided
Insert

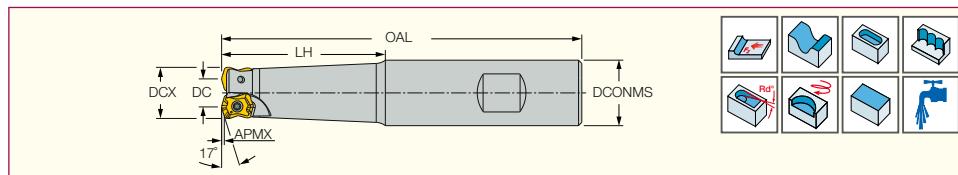
Unique Insert Shape



LOGIQMILL
ISCAR CHESS LINES

FFX4 ED

Endmills Carrying Small Double-Sided "Bone Shape" Inserts with 4 Cutting Edges for Fast Feed Milling



Designation	DCX	DC	APMX	CICT ⁽¹⁾	LH	OAL	DCONMS	RMPX ⁽²⁾	Shank ⁽³⁾	WT ⁽⁴⁾
FFX4 ED12-1-030-C12-04	12.00	4.60	0.80	1	30.0	90.00	12.00	3.6	C	0.07
FFX4 ED16-2-030-C16-04	16.00	8.60	0.80	2	30.0	120.00	16.00	4.3	C	0.16
FFX4 ED16-2-050-W20-04	16.00	8.60	0.80	2	50.0	110.00	20.00	4.3	W	0.20
FFX4 ED20-3-050-C20-04	20.00	12.60	0.80	3	50.0	140.00	20.00	2.7	C	0.29
FFX4 ED20-3-060-W20-04	20.00	12.60	0.80	3	60.0	120.00	20.00	2.7	W	0.24
FFX4 ED25-4-060-C25-04	25.00	17.60	0.80	4	60.0	150.00	25.00	1.8	C	0.50
FFX4 ED25-4-080-W25-04	25.00	17.60	0.80	4	80.0	140.00	25.00	1.8	W	0.45
FFX4 ED32-5-080-W32-04	32.00	24.60	0.80	5	80.0	150.00	32.00	1.2	W	0.80
FFX4 ED32-5-120-C32-04	32.00	24.60	0.80	5	120.0	205.00	32.00	1.2	C	1.02

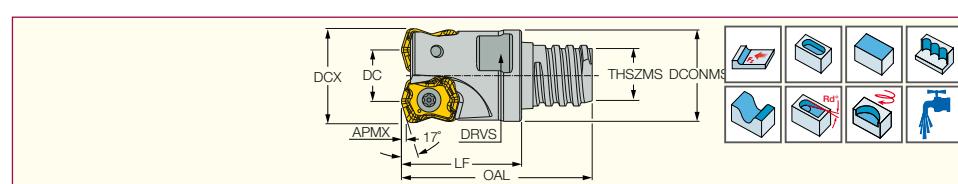
• Radius for programming 1.8 mm (1) Number of inserts (2) Ramping angle maximum (3) C-Cylindrical, W-Weldon (4) Item weight

Spare Parts

Designation		
FFX4 ED12-1-030-C12-04	SR M2.5X6-T7-60	T-7/51
FFX4 ED16-2-030-C16-04	SR M2.5X6-T7-60	T-7/51
FFX4 ED16-2-050-W20-04	SR M2.5X6-T7-60	T-7/51
FFX4 ED20-3-050-C20-04	SR M2.5X0.45-L6 IP7	IP-7/51
FFX4 ED20-3-060-W20-04	SR M2.5X6-T7-60	T-7/51
FFX4 ED25-4-060-C25-04	SR M2.5X6-T7-60	T-7/51
FFX4 ED25-4-080-W25-04	SR M2.5X6-T7-60	T-7/51
FFX4 ED32-5-080-W32-04	SR M2.5X6-T7-60	T-7/51
FFX4 ED32-5-120-C32-04	SR M2.5X6-T7-60	T-7/51

FFX4 ED-MM

Endmills with MULTI-MASTER Adaptation Carrying Small "Bone Shape" Inserts with 4 Cutting Edges for Fast Feed Milling



Designation	DCX	DC	CICT ⁽¹⁾	APMX	THSZMS	LF	OAL	RMPX ⁽²⁾	DCONMS	DRVS ⁽³⁾	WT ⁽⁴⁾
FFX4 ED16/.63-2-MMT10-04	16.00	8.60	2	0.80	T10	20.00	31.75	4.3	15.20	13.0	0.02

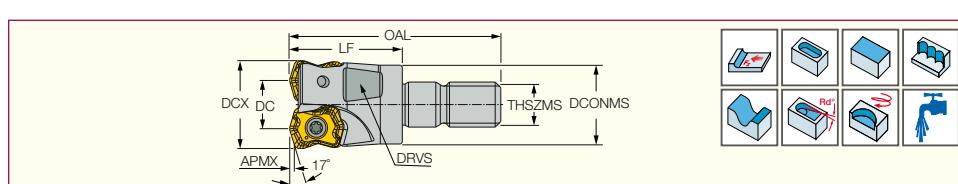
• Radius for programming 1.8 mm (1) Number of inserts (2) Ramping angle maximum (3) Key flat size

Spare Parts

Designation		
FFX4 ED-MM	SR M2.5X6-T7-60	T-7/51

FFX4 ED-M

Endmills with FLEXFIT Adaptation Carrying Small "Bone Shape" Inserts with 4 Cutting Edges for Fast Feed Milling



Designation	DCX	DC	CICT ⁽¹⁾	APMX	THSZMS	LF	OAL	RMPX ⁽²⁾	DCONMS	DRVS ⁽³⁾	WT ⁽⁴⁾
FFX4 ED16/.63-2-M08-04	16.00	8.60	2	0.80	M08	20.00	37.50	4.3	13.00	13.0	0.02
FFX4 ED20/.78-3-M10-04	20.00	12.60	3	0.80	M10	25.00	45.00	2.7	18.00	17.0	0.04
FFX4 ED25/.98-4-M12-04	25.00	17.60	4	0.80	M12	30.00	52.00	1.8	21.00	19.0	0.08
FFX4 ED32/1.26-5-M16-04	32.00	24.60	5	0.80	M16	35.00	60.00	1.2	29.00	27.0	0.18
FFX4 ED35/1.38-5-M16-04	35.00	27.60	5	0.80	M16	35.00	60.00	1.1	29.00	27.0	0.20

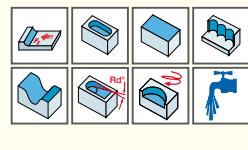
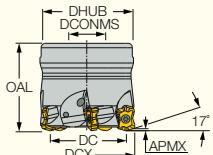
• Radius for programming 1.8 mm (1) Number of inserts (2) Ramping angle maximum (3) Key flat size (4) Item weight

Spare Parts

Designation		
FFX4 ED-M	SR M2.5X6-T7-60	T-7/51

FFX4 FD

Face Mills Carrying Small "Bone Shape" Inserts with 4 Cutting Edges for Fast Feed Milling



Designation	DCX	DC	CICT ⁽¹⁾	APMX	OAL	DCONMS	DHUB	Rd°	WT ⁽²⁾
FFX4 FD032-5-16-04	32.00	24.60	5	0.80	40.00	16.00	38.00	1.2	0.17
FFX4 FD040-6-16-04	40.00	32.60	6	0.80	40.00	16.00	38.00	0.9	0.23

- Radius for programming 1.8 mm

(1) Number of inserts

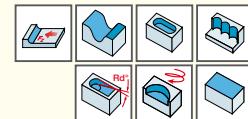
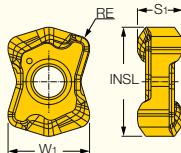
(2) Item weight

Spare Parts

Designation			
FFX4 FD032-5-16-04	SR M2.5X6-T7-60	T-7/51	SR M8X25-D11.5
FFX4 FD040-6-16-04	SR M2.5X6-T7-60	T-7/51	SR M8X25DIN912

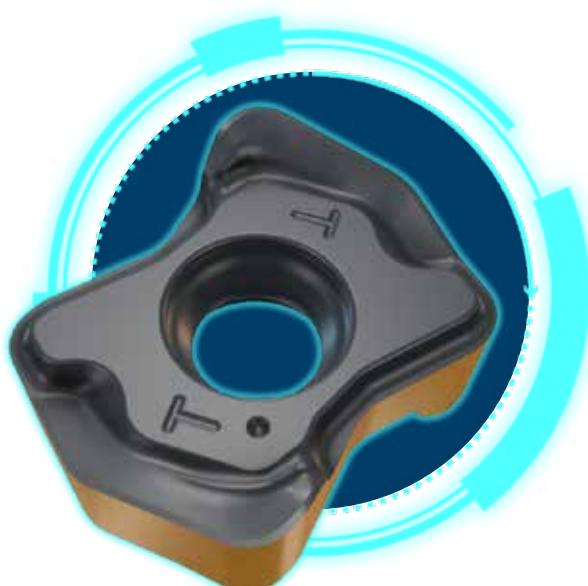
FFX4 XNMU

Small "Bone Shape" Inserts with 4 Cutting Edges for Fast Feed Milling



Designation	Dimensions				Tough ↔ Hard					Recommended Machining Data		
	INSL	S ₁	RE	W ₁	IC882	IC840	IC830	IC5820	IC808	IC810	a _p (mm)	f _z (mm/t)
FFX4 XNNU 040310HP	9.29	3.97	1.00	7.16	●	●	●	●			0.20-0.80	0.20-0.90
FFX4 XNNU 040310T	9.29	3.97	1.00	7.16			●		●	●	0.20-0.80	0.20-1.20

- HP- for austenitic stainless steel and high temperature alloys
- T- for steel, ferritic and martensitic stainless steel, cast iron and hardened steel





High Feed Face Milling 22-160 mm Diameter Feed Master



**Square Insert for
High Feed Face Milling with
Higher Productivity**



Reinforced
Insert Radius



For Stainless Steel,
Cast Iron
& Exotic Materials



Positive Insert
Positioning



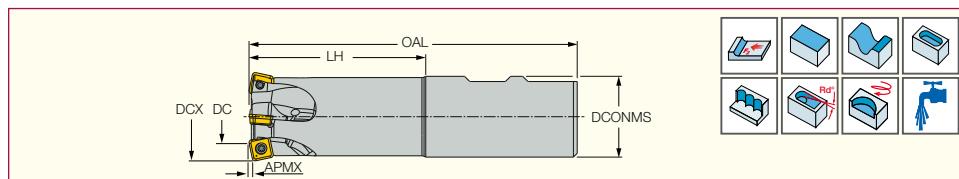
Interrupted Cut

**4 Cutting Edged
Square Insert**

LOGIQMILL
ISCAR CHESS LINES

**FFQ4 D-W-09**

Fast Feed Endmills Carrying Single-Sided Inserts with 4 Cutting Edges



Designation	DC	DCX	APMX	AE ⁽¹⁾	CICT ⁽²⁾	LH	OAL	DCONMS	RMPX ⁽³⁾	WT ⁽⁴⁾
FFQ4 D022-2-044-W20-09	7.70	22.00	1.20	6.0	2	44.0	94.00	20.00	8.2	0.19
FFQ4 D025-3-050-W25-09	10.70	25.00	1.20	6.0	3	50.0	106.00	25.00	5.5	0.25
FFQ4 D032-4-064-W25-09	17.70	32.00	1.20	6.0	4	64.0	120.00	25.00	3.2	0.50
FFQ4 D035-5-070-W32-09	20.70	35.00	1.20	6.0	5	70.0	130.00	32.00	2.7	0.70

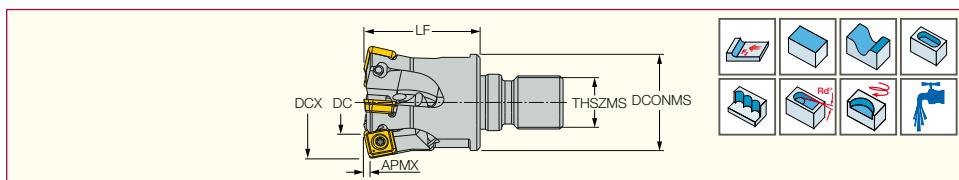
• Radius for programming 2.5 mm ⁽¹⁾ Plunging width ⁽²⁾ Number of inserts ⁽³⁾ Ramping angle maximum ⁽⁴⁾ Item weight

Spare Parts

Designation		
FFQ4 D-W-09	SR M3X0.5-L7.4 IP9	IP-9/151

**FFQ4 D-M-09**

Fast Feed Endmills with FLEXFIT Threaded Adaptation Carrying Single-Sided Inserts with 4 Cutting Edges



Designation	DC	DCX	APMX	AE ⁽¹⁾	CICT ⁽²⁾	LF	OAL	DCONMS	THSZMS	RMPX ⁽³⁾	WT ⁽⁴⁾
FFQ4 D022-02-M10-09	7.70	22.00	1.20	6.0	2	25.00	45.00	18.00	M10	8.2	0.04
FFQ4 D025-02-M12-09	10.70	25.00	1.20	6.0	2	30.00	52.00	21.00	M12	5.5	0.05
FFQ4 D025-03-M12-09	10.70	25.00	1.20	6.0	3	30.00	52.00	21.00	M12	5.5	0.07
FFQ4 D032-03-M16-09	17.70	32.00	1.20	6.0	3	35.00	60.00	29.00	M16	3.2	0.14
FFQ4 D032-04-M16-09	17.70	32.00	1.20	6.0	4	35.00	60.00	29.00	M16	3.2	0.14
FFQ4 D035-05-M16-09	20.70	35.00	1.20	6.0	5	35.00	60.00	29.00	M16	2.7	0.16
FFQ4 D040-05-M16-09	25.70	40.00	1.20	6.0	5	35.00	60.00	29.00	M16	2.0	0.18

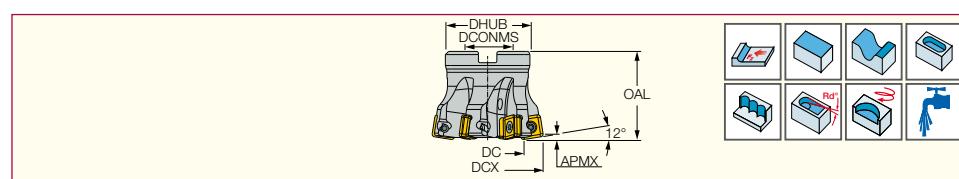
• Radius for programming 2.5 mm ⁽¹⁾ Plunging width ⁽²⁾ Number of inserts ⁽³⁾ Ramping angle maximum ⁽⁴⁾ Item weight

Spare Parts

Designation		
FFQ4 D-M-09	SR M3X0.5-L7.4 IP9	IP-9/151

**FFQ4 D-09**

Fast Feed Face Mills Carrying Single-Sided Inserts with 4 Cutting Edges



Designation	DC	DCX	APMX	AE ⁽¹⁾	CICT ⁽²⁾	OAL	DCONMS	DHUB	RMPX ⁽³⁾	WT ⁽⁴⁾
FFQ4 D40-05-16-09	25.70	40.00	1.20	6.0	5	35.00	16.00	38.00	2.0	0.17
FFQ4 D50-07-22-09	35.70	50.00	1.20	6.0	7	40.00	22.00	48.00	1.5	0.32
FFQ4 D52-07-22-09	37.70	52.00	1.20	6.0	7	40.00	22.00	48.00	1.4	0.34
FFQ4 D63-08-22-09	48.70	63.00	1.20	6.0	8	45.00	22.00	48.00	1.1	0.49

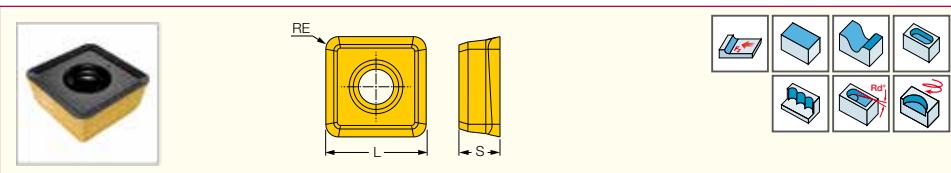
• Radius for programming 2.5 mm ⁽¹⁾ Plunging width ⁽²⁾ Number of inserts ⁽³⁾ Ramping angle maximum ⁽⁴⁾ Item weight

Spare Parts

Designation			
FFQ4 D40-05-16-09	SR M3X0.5-L7.4 IP9	IP-9/151	SR M8X25DIN912
FFQ4 D50-07-22-09	SR M3X0.5-L7.4 IP9	IP-9/151	SR M10X25 DIN912
FFQ4 D52-07-22-09	SR M3X0.5-L7.4 IP9	IP-9/151	SR M10X25 DIN912
FFQ4 D63-08-22-09	SR M3X0.5-L7.4 IP9	IP-9/151	SR M10X30 DIN912

**FFQ4 SOMT 0904**

Square Single-Sided Inserts with 4 Cutting Edges for Fast Feed Milling

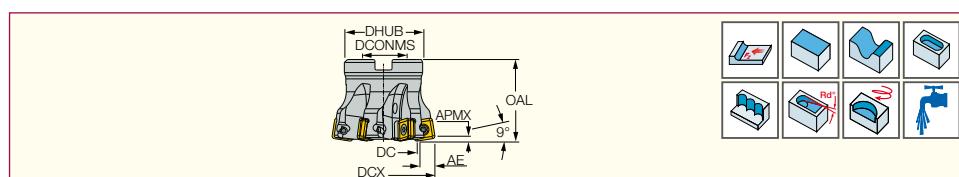


Designation	Dimensions			Tough \leftrightarrow Hard					Recommended Machining Data	
	L	S	RE	IC882	IC830	IC5820	IC808	IC810	a_p (mm)	f_z (mm/t)
FFQ4 SOMT 090412T	8.50	3.90	1.20		●		●	●	0.50-1.20	0.40-1.50
FFQ4 SOMT 0904RM-T	8.50	3.80	1.20		●		●	●	0.50-1.20	0.40-1.50
FFQ4 SOMT 090412HP	8.50	3.80	1.20	●	●	●	●	●	0.50-1.20	0.40-1.40

- T - type for steel, ferritic and martensitic stainless steel, cast iron and hardened steel
- RM-T type for interrupted cut and machining near straight shoulders on steel, ferritic and martensitic stainless steel, cast iron and hardened steel
- HP - type for austenitic stainless steel and high temperature alloys

**FFQ4 D-12**

Fast Feed Face Mills
Carrying Single-Sided Inserts with 4 Cutting Edges



Designation	DC	DCX	APMX	AE	CICT	OAL	DHUB	DCONMS	Arbor	RMPX	kg
FFQ4 D040-3-16-12	18.00	40.00	1.50	10.0	3	45.00	38.00	16.00	A	4.3	0.23
FFQ4 D040-4-16-12	18.00	40.00	1.50	10.0	4	45.00	38.00	16.00	A	4.3	0.22
FFQ4 D050-4-22-12	28.00	50.00	1.50	10.0	4	50.00	48.00	22.00	A	2.7	0.38
FFQ4 D050-5-22-12	28.00	50.00	1.50	10.0	5	50.00	48.00	22.00	A	2.7	0.37
FFQ4 D052-5-22-12	29.00	52.00	1.50	10.0	5	50.00	48.00	22.00	A	2.5	0.39
FFQ4 D063-6-22-12	41.00	63.00	1.50	10.0	6	50.00	48.00	22.00	A	1.8	0.50
FFQ4 D066-6-27-12	43.00	66.00	1.50	10.0	6	50.00	60.00	27.00	A	1.6	0.65
FFQ4 D080-7-27-12	58.00	80.00	1.50	10.0	7	50.00	60.00	27.00	A	1.2	0.84
FFQ4 D100-8-32-12	78.00	100.00	1.50	10.0	8	50.00	78.00	32.00	B	0.9	1.30

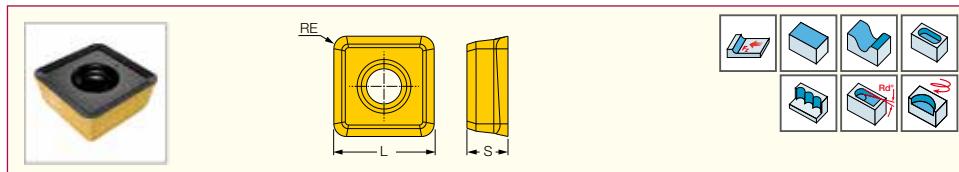
• Radius for programming 3.1 mm (1) Plunging width

Spare Parts

Designation	SR M4X0.7-L9.6 IP15	SW6-T	BLD IP15/S7	SR PS 118-0416
FFQ4 D040-3-16-12	SR M4X0.7-L9.6 IP15	SW6-T	BLD IP15/S7	SR PS 118-0416
FFQ4 D040-4-16-12	SR M4X0.7-L9.6 IP15	SW6-T	BLD IP15/S7	SR M10X35 DIN912
FFQ4 D050-4-22-12	SR M4X0.7-L9.6 IP15	SW6-T	BLD IP15/S7	SR M10X35 DIN912
FFQ4 D050-5-22-12	SR M4X0.7-L9.6 IP15	SW6-T	BLD IP15/S7	SR M10X35 DIN912
FFQ4 D052-5-22-12	SR M4X0.7-L9.6 IP15	SW6-T	BLD IP15/S7	SR M10X35 DIN912
FFQ4 D063-6-22-12	SR M4X0.7-L9.6 IP15	SW6-T	BLD IP15/S7	SR M10X35 DIN912
FFQ4 D066-6-27-12	SR M4X0.7-L9.6 IP15	SW6-T	BLD IP15/S7	SR M12X30DIN912
FFQ4 D080-7-27-12	SR M4X0.7-L9.6 IP15	SW6-T	BLD IP15/S7	SR M12X30DIN912
FFQ4 D100-8-32-12	SR M4X0.7-L9.6 IP15	SW6-T	BLD IP15/S7	

**FFQ4 SOMT 1205**

Square Single-Sided Inserts with 4 Cutting Edges for Fast Feed Milling

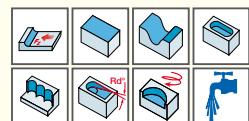
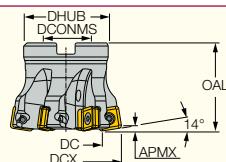


Designation	Dimensions			Tough \leftrightarrow Hard					Recommended Machining Data	
	L	S	RE	IC882	IC830	IC5820	IC808	IC810	a_p (mm)	f_z (mm/t)
FFQ4 SOMT 1205RM-HP	12.70	5.20	1.60		●				0.50-1.50	0.40-1.80
FFQ4 SOMT 1205RM-T	12.70	5.20	1.60				●		0.50-1.50	0.40-2.00
FFQ4 SOMT 120516HP	12.70	5.20	1.60	●	●	●	●		0.50-1.50	0.40-1.80
FFQ4 SOMT 120516T	12.70	5.20	1.60		●		●		0.50-1.50	0.40-2.00
FFQ4 SOMT 120516T20	12.70	5.20	1.60					●	0.50-1.50	0.40-2.00

- RM-HP- for interrupted cut and machining next to shoulders of austenitic stainless steel and high temperature alloys
- RM-T- for interrupted cut and machining next to shoulders of steel, ferritic and martensitic stainless steel, cast iron and hardened steel
- HP- for austenitic stainless steel and high temperature alloys
- T- for steel, ferritic and martensitic stainless steel, cast iron and hardened steel
- T20- for grey and nodular cast iron

FFQ4 D-17

Fast Feed Face Mills Carrying Single-Sided Inserts with 4 Cutting Edges



Designation	DCX	DC	APMX	AE	CICT ⁽¹⁾	OAL	DCONMS	DHUB	RMPX ⁽²⁾	WT ⁽³⁾
FFQ4 D080-06-27-17	80.00	50.80	3.00	13.0	6	50.00	27.00	60.00	1.2	0.78
FFQ4 D100-07-32-17	100.00	70.80	3.00	13.0	7	50.00	32.00	78.00	0.8	1.18
FFQ4 D125-08-40-17	125.00	95.80	3.00	13.0	8	63.00	40.00	92.00	0.6	2.48
FFQ4 D160-10-40-17	160.00	130.80	3.00	13.0	10	63.00	40.00	95.00	0.2	2.90

• Radius for programming 5.5 mm

(1) Number of inserts

(2) Ramping angle maximum

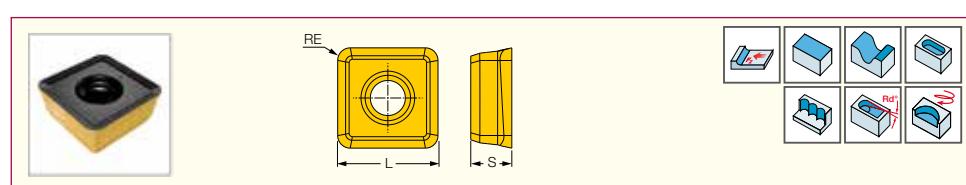
(3) Item weight

Spare Parts

Designation	SR M5-14 IP20	SW6-T	BLD IP20/S7	SR M12X30DIN912
FFQ4 D080-06-27-17	SR M5-14 IP20	SW6-T	BLD IP20/S7	SR M12X30DIN912
FFQ4 D100-07-32-17	SR M5-14 IP20	SW6-T	BLD IP20/S7	SR M12X30DIN912
FFQ4 D125-08-40-17	SR M5-14 IP20	SW6-T	BLD IP20/S7	SR M12X30DIN912
FFQ4 D160-10-40-17	SR M5-14 IP20	SW6-T	BLD IP20/S7	SR M12X30DIN912

FFQ4 SOMT 1706

Square Single-Sided Inserts with 4 Cutting Edges for Fast Feed Milling

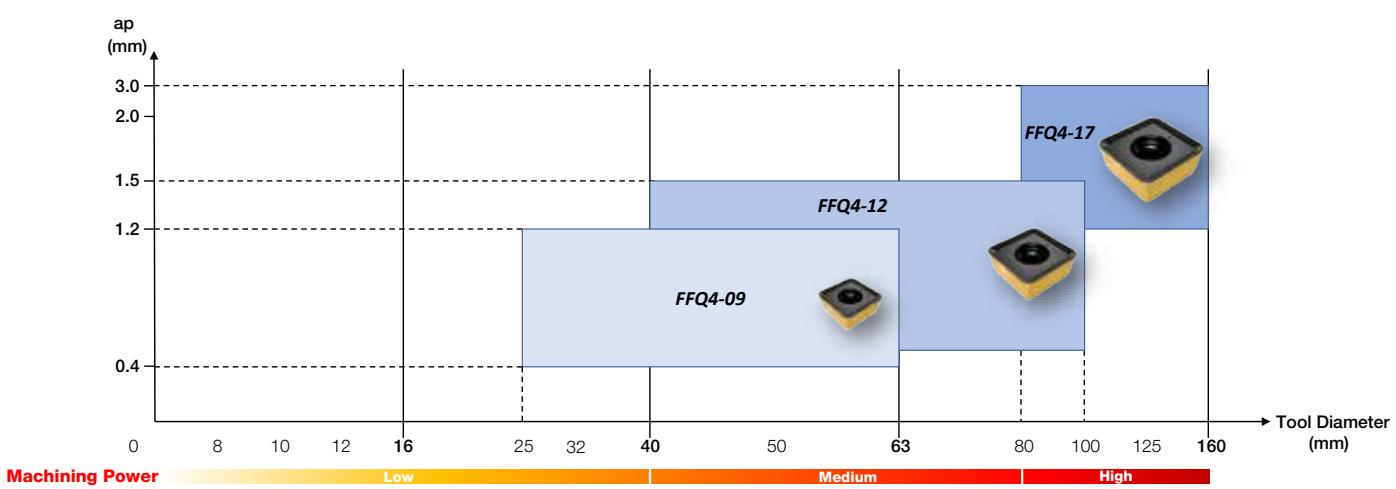


Designation	Dimensions			Tough \leftrightarrow Hard				Recommended Machining Data	
	L	S	RE	IC882	IC880	IC808	IC810	a _p (mm)	f _Z (mm/t)
FFQ4 SOMT 1706RM-T⁽¹⁾	17.50	6.00	2.50		●	●		1.20-3.00	0.40-2.00
FFQ4 SOMT 170625HP⁽²⁾	17.50	6.00	2.50	●	●	●		1.20-3.00	0.40-1.50
FFQ4 SOMT 170625T⁽³⁾	17.50	6.00	2.50		●	●	●	1.20-3.00	0.40-2.00

(1) For interrupted cut and machining next to shoulders on steel, stainless steel, cast iron and hardened steel

(2) For austenitic stainless steel and high temperature alloys

(3) For steel, ferritic and martensitic stainless steel, cast iron and hardened steel



TANG4FEED
HI-FEED MILLING

Tangential High Feed 40-100 mm Speed Master



**Unique Tangential Insert
for High Feed Face Milling**



Tangential
Insert



For Steel, Cast Iron
and Exotic Materials



Strong Cutting
Edge

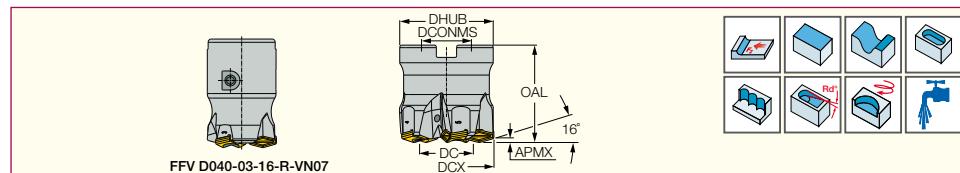


Up to 3.1°
Ramp Down Angle

LOGIQMILL
ISCAR CHESS LINES

FFV-D-R-VN07

Fast Feed Shell Mill Carrying
Tangentially Clamped Inserts
with 4 Cutting Edges



Designation	DCX	DC	APMX	CICT ⁽²⁾	OAL	DCONMS	DHUB	RMPX ⁽³⁾	Arbor	WT ⁽⁴⁾
FFV D040-03-16-R-VN07 ⁽¹⁾	40.00	25.00	1.50	3	60.00	16.00	25.00	3.0	Special	0.36
FFV D050-05-22-R-VN07	50.00	35.00	1.50	5	50.00	22.00	48.00	3.2	A	0.47
FFV D063-06-22-R-VN07	63.00	48.00	1.50	6	40.00	22.00	48.00	2.2	A	1.17
FFV D080-07-27-R-VN07	80.00	65.00	1.50	7	50.00	27.00	60.00	1.5	A	0.81
FFV D100-08-32-R-VN07	100.00	85.00	1.50	8	50.00	32.00	78.00	1.2	B	1.61

• Radius for programming R=2.8 mm

(1) Use on face mill adapters with the supplied retention screw

(2) Number of inserts

(3) Ramping angle maximum

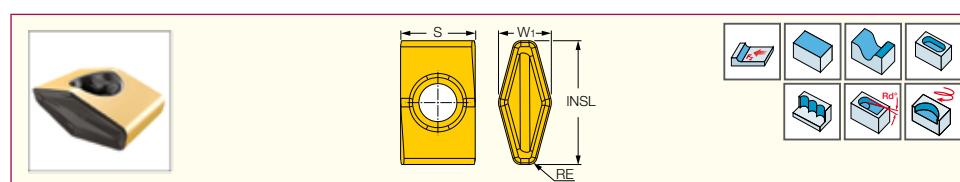
(4) Item weight

Spare Parts

Designation	SR M4X0.7-L11.5 IP15	BLD IP15/S7	SW6-T-SH	SR M8X17-13685	HW 4.0
FFV D040-03-16-R-VN07	SR M4X0.7-L11.5 IP15	BLD IP15/S7	SW6-T-SH	SR PS 118-0271C	
FFV D050-05-22-R-VN07	SR M4X0.7-L11.5 IP15	BLD IP15/S7	SW6-T-SH		
FFV D063-06-22-R-VN07	SR M4X0.7-L11.5 IP15	BLD IP15/S7	SW6-T-SH	SR M10X25 DIN912	
FFV D080-07-27-R-VN07	SR M4X0.7-L11.5 IP15	BLD IP15/S7	SW6-T-SH		
FFV D100-08-32-R-VN07	SR M4X0.7-L11.5 IP15	BLD IP15/S7	SW6-T-SH		

FF VNMT 0706

Tangentially Clamped Inserts with 4
Cutting Edges for Fast Feed Milling

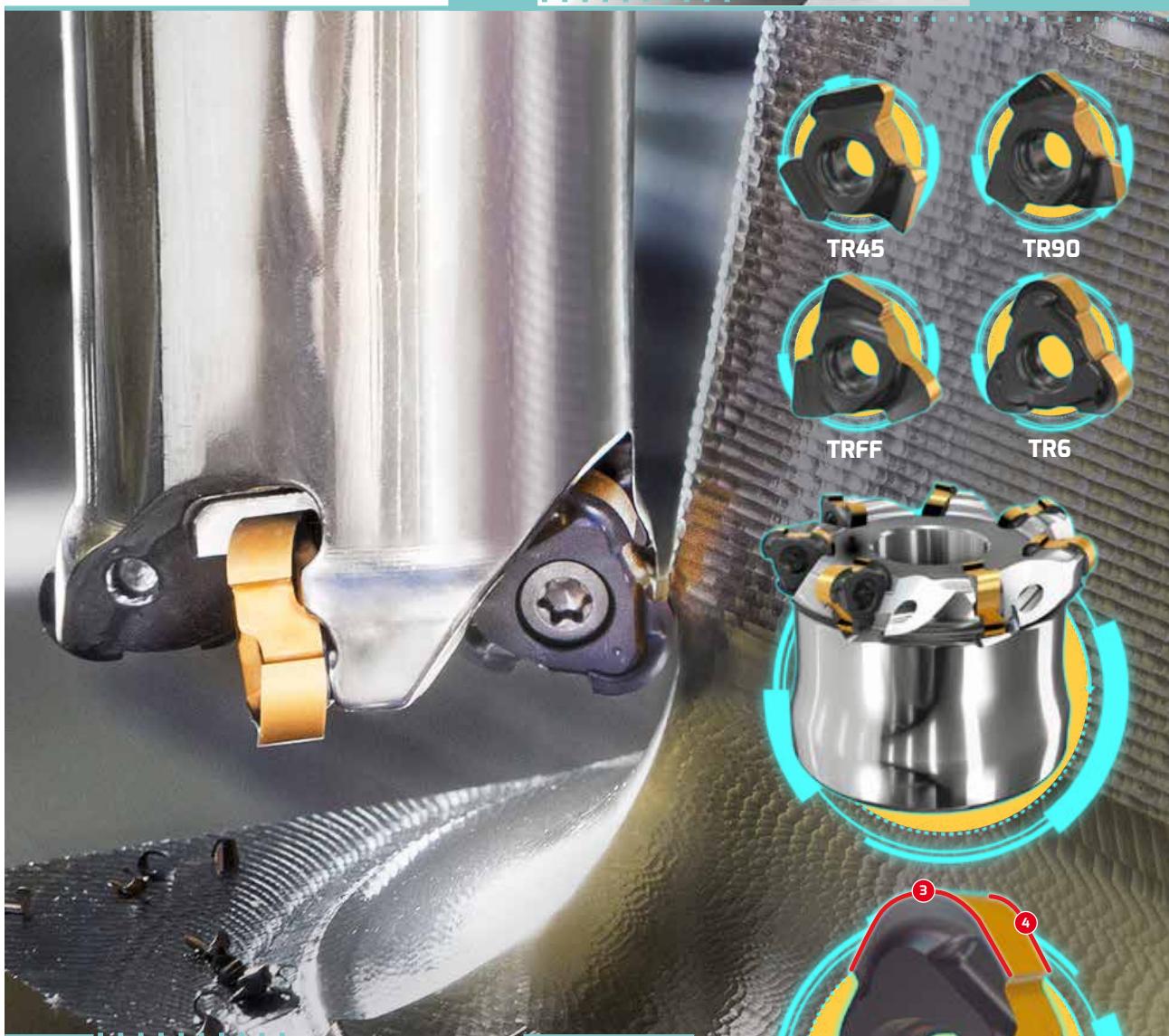


Designation	Dimensions				Tough \leftrightarrow Hard								Recommended Machining Data		
	W ₁	INSL	RE	S	IC82	IC845	IC840	IC830	IC5820	IC5400	IC5500	IC808	IC810	a _p (mm)	f _z (mm/t)
FF VNMT 0706ZN-ER ⁽¹⁾	6.40	15.00	1.00	9.05	●	●	●	●	●	●	●	●	●	0.50-1.50	0.40-1.80
FF VNMT 0706ZN-ETR ⁽²⁾	6.40	15.00	1.00	9.05				●			●	●	●	0.50-1.50	0.40-1.80

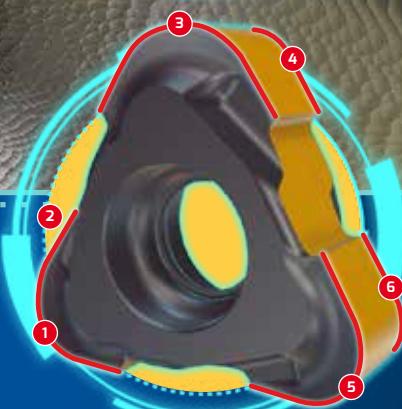
(1) For general applications

(2) Reinforced cutting edges for interrupted cut and unfavorable conditions

Profile Milling 16-80 mm Diameters Radius Master



Radial Profile Insert
for Die & Mold and
General Applications



Double Sided Inserts with
6 Round Cutting Edges



High Positive
Rake Angle



Innovative Insert
Design



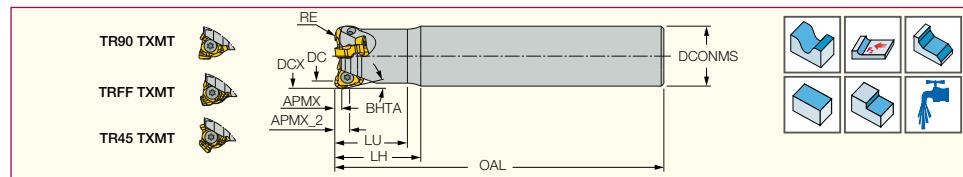
Variety of
Cutting Geometries



Cost Effective
Insert

TR6 ER

Multi-function Endmills that can carry four different insert geometries



Designation	DCX	DC	APMX	APMX_2 ⁽¹⁾	RE	CICT ⁽²⁾	LU	LH	DCONMS	BHTA	OAL	WT ⁽³⁾	Insert
TR6 ER D16-50-2-C16-07	16.00	14.00	1.00	2.00	1.00	2	46.5	50.0	16.00	21.0	100.00	0.12	TR6 TNCU 070210
TR6 ER D20-60-4-C20-07	20.00	18.00	1.00	2.00	1.00	4	56.5	60.0	20.00	21.0	120.00	0.22	TR6 TNCU 070210
TR6 ER D25-70-5-C25-07	25.00	23.00	1.00	2.00	1.00	5	65.5	70.0	25.00	21.0	140.00	0.42	TR6 TNCU 070210
TR6 ER D32-80-6-C32-07	32.00	30.00	1.00	2.00	1.00	6	75.5	80.0	32.00	21.0	160.00	0.82	TR6 TNCU 070210
TR6 ER D25-70-3-C25-10	25.00	20.00	2.50	4.20	2.50	3	65.0	70.0	25.00	20.5	140.00	0.41	TR6 TNCU 100425
TR6 ER D32-80-4-C32-10	32.00	27.00	2.50	4.20	2.50	4	75.0	80.0	32.00	20.5	160.00	0.81	TR6 TNCU 100425

• Note: The data refers to TR6 TNCU 070210 and TR6 TNCU 100425 master inserts, for other insert radii and geometries refer to the table below

(1) For undercutting (2) Number of inserts (3) Item weight

Spare Parts

Designation	Screw	Key
TR6 ER D16-50-2-C16-07	SR M2.5X0.45-L6 IP7	IP-7/51
TR6 ER D20-60-4-C20-07	SR M2.5X0.45-L6 IP7	IP-7/51
TR6 ER D25-70-5-C25-07	SR M2.5X0.45-L6 IP7	IP-7/51
TR6 ER D32-80-6-C32-07	SR M2.5X0.45-L6 IP7	IP-7/51
TR6 ER D25-70-3-C25-10	SR 10508600	T-9/51
TR6 ER D32-80-4-C32-10	SR 10508600	T-9/51

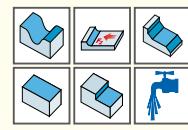
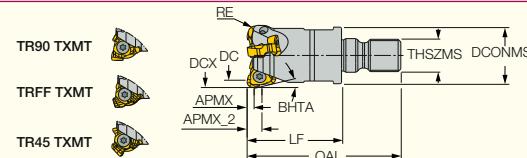
For undercutting

Tool	Insert	DCX	DC	APMX	LU	LH	OAL	RMPX ⁽¹⁾	APMX_2	BHTA
TR6 ER D16-50-2-C16-07	TR6 TNCU 070205	16.0	15.0	0.5	46.4	49.9	99.9	-	1.6	17.0
	TR6 TNMU 070215		13.0	1.5	45.6	50.1	100.1	-	2.4	21.0
	TRFF TXMT 0702		12.1	0.6	46.7	50.2	100.2	1.1	-	-
	TR90 TXMT 070204		-	2.5	46.8	50.3	100.3	1.6	-	-
TR6 ER D20-60-4-C20-07	TR6 TNCU 070205	20.0	19.0	0.5	56.4	59.9	119.9	-	1.6	17.0
	TR6 TNMU 070215		17.0	1.5	56.6	60.1	120.1	-	2.4	21.0
	TRFF TXMT 0702		16.1	0.6	56.7	60.2	120.2	0.8	-	-
	TR90 TXMT 070204		-	2.5	56.8	60.3	120.3	1.2	-	-
TR6 ER D25-70-5-C25-07	TR6 TNCU 070205	25.0	24.0	1.0	65.4	69.9	139.9	-	1.6	17.0
	TR6 TNMU 070215		22.0	1.5	65.6	70.1	140.1	-	2.4	21.0
	TRFF TXMT 0702		21.1	0.6	65.7	70.2	140.2	0.6	-	-
	TR90 TXMT 070204		-	2.5	65.8	70.3	140.3	0.9	-	-
TR6 ER D32-80-6-C32-07	TR6 TNCU 070205	32.0	31.0	0.5	75.4	79.9	159.9	-	1.6	17.0
	TR6 TNMU 070215		29.0	1.5	75.6	80.1	160.1	-	2.4	21.0
	TRFF TXMT 0702		28.1	0.6	75.7	80.2	160.2	0.4	-	-
	TR90 TXMT 070204		-	2.5	75.8	80.3	160.3	0.7	-	-
TR6 ER D25-70-3-C25-10	TR6 TNCU 100405	25.0	24.0	0.5	64.52	69.52	139.52	-	1.8	17.5
	TR6 TNCU 100410		23.0	1.0	64.64	69.64	139.65	-	2.3	-
	TR6 TNCU/MU 100415		22.0	1.5	64.76	69.76	139.76	-	2.7	-
	TR6 TNCU 100420		21.0	2.0	64.88	69.88	139.88	-	3.5	-
	TR6 TNCU 100430		19.0	3.0	65.12	70.12	140.12	-	4.5	20.5
	TRFF TXMT 1004		19.0	0.8	65.15	70.15	140.15	1.7	-	-
TR6 ER D32-80-4-C32-10	TR90 TXMT 100408	32.0	-	4.0	64.91	69.91	139.91	1.6	-	-
	TR45 TXMT 1004		26.8	20.6	3.0	65.12	70.12	140.12	1.4	-
	TR6 TNCU 100405		31.0	0.5	74.52	79.52	159.52	-	1.8	17.5
	TR6 TNCU 100410		30.0	1.0	74.64	79.65	159.64	-	2.3	-
TR6 ER D32-80-4-C32-10	TR6 TNCU/MU 100415	32.0	29.0	1.5	76.76	79.76	159.76	-	2.7	-
	TR6 TNCU 100420		28.0	2.0	74.88	79.88	159.88	-	3.5	-
	TR6 TNCU 100430		26.0	3.0	75.12	80.12	160.12	-	4.5	20.5
	TRFF TXMT 1004		26.0	0.8	75.15	80.15	160.15	1.2	-	-
	TR90 TXMT 100408		-	4.0	74.91	79.91	159.91	1.2	-	-
TR6 ER D32-80-4-C32-10	TR45 TXMT 1004	33.8	27.6	3.0	75.12	80.12	160.12	1.0	-	-

(1) Maximum ramp down angle



TR6 ER-M

 Multifunction Endmills with FLEXFIT
 Threaded Adaptation that can Carry
 Four Different Insert Geometries.


Designation	DCX	DC	APMX	APMX_2 ⁽¹⁾	RE	CICT ⁽²⁾	LF	DCONMS	THSZMS	BHTA	OAL	WT ⁽³⁾	Insert
TR6 ER D16/0.63-2-M08-07	16.00	14.00	1.00	2.00	1.00	2	20.00	13.00	M08	21.0	37.50	0.03	TR6 TNCU 070210
TR6 ER D25/0.98-5-M12-07	25.00	23.00	1.00	2.00	1.00	5	30.00	21.00	M12	21.0	52.00	0.08	TR6 TNCU 070210
TR6 ER D32/1.26-6-M16-07	32.00	30.00	1.00	2.00	1.00	6	35.00	29.00	M16	21.0	60.00	0.18	TR6 TNCU 070210
TR6 ER D35/1.38-6-M16-07	35.00	33.00	1.00	2.00	1.00	6	35.00	29.00	M16	21.0	60.00	0.19	TR6 TNCU 070210
TR6 ER D25/0.98-3-M12-10	25.00	20.00	2.50	4.20	2.50	3	35.00	21.00	M12	20.5	57.00	0.06	TR6 TNCU 100425
TR6 ER D35/1.38-5-M16-10	35.00	30.00	2.50	4.20	2.50	5	35.00	29.00	M16	20.5	57.00	0.18	TR6 TNCU 100425

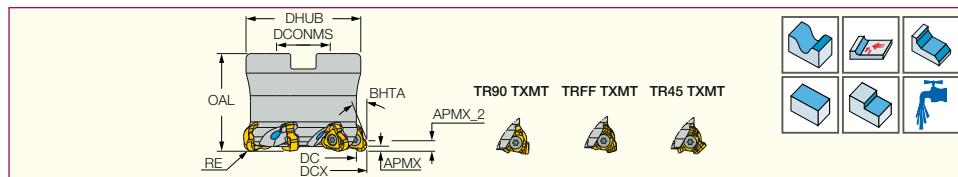
• Note: The data refers to TR6 TNCU 070210 and TR6 TNCU 100425 master inserts, for other insert radii and geometries refer to the table below

(1) For undercutting (2) Number of inserts (3) Item weight

Spare Parts	Screw	Key
TR6 ER D16/0.63-2-M08-07	SR M2.5X0.45-L6 IP7	IP-7/51
TR6 ER D25/0.98-5-M12-07	SR M2.5X0.45-L6 IP7	IP-7/51
TR6 ER D32/1.26-6-M16-07	SR M2.5X0.45-L6 IP7	IP-7/51
TR6 ER D35/1.38-6-M16-07	SR M2.5X0.45-L6 IP7	IP-7/51
TR6 ER D25/0.98-3-M12-10	SR 10508600	T-9/51
TR6 ER D35/1.38-5-M16-10	SR 10508600	T-9/51

Tool	Insert	DCX	DC	APMX	LF	OAL	For undercutting			
							RMPX	APMX_2	BHTA	
TR6 ER D16/0.63-2-M08-07	TR6 TNCU 070205	16.0	15.0	0.5	24.9	42.4	-	1.6	17.0	
	TR6 TNMU 070215		13.0	1.5	25.1	42.6	-	2.4	21.0	
	TRFF TXMT 0702		12.1	0.6	25.2	47.2	1.1	-	-	
	TR90 TXMT 070204		-	2.5	25.3	42.8	1.6	-	-	
TR6 ER D20/0.78-4-M10-07	TR6 TNCU 070205	20.0	19.0	0.5	26.9	46.9	-	1.6	17.0	
	TR6 TNMU 070215		17.0	1.5	27.1	47.1	-	2.4	21.0	
	TRFF TXMT 0702		16.1	0.6	27.2	47.2	0.8	-	-	
	TR90 TXMT 070204		-	2.5	27.3	47.3	1.2	-	-	
TR6 ER D25/0.98-5-M12-07	TR6 TNCU 070205	25.0	24.0	0.5	29.9	51.9	-	1.6	17.0	
	TR6 TNMU 070215		22.0	1.5	30.1	52.1	-	2.4	21.0	
	TRFF TXMT 0702		21.1	0.6	30.2	52.2	0.6	-	-	
	TR90 TXMT 070204		-	2.5	30.3	52.3	0.9	-	-	
TR6 ER D32/1.26-6-M16-07	TR6 TNCU 070205	32.0	31.0	0.5	32.9	57.9	-	1.6	17.0	
	TR6 TNMU 070215		29.0	1.5	33.1	58.1	-	2.4	21.0	
	TRFF TXMT 0702		28.1	0.6	33.2	58.2	0.4	-	-	
	TR90 TXMT 070204		-	2.5	33.3	58.3	0.7	-	-	
TR6 ER D35/1.38-6-M16-07	TR6 TNCU 070205	35.0	34.0	0.5	32.9	57.9	-	1.6	17.0	
	TR6 TNMU 070215		32.0	1.5	33.1	58.1	-	2.4	21.0	
	TRFF TXMT 0702		31.1	0.6	33.2	58.2	0.4	-	-	
	TR90 TXMT 070204		-	2.5	33.3	58.3	0.7	-	-	
TR6 ER D25/0.98-3-M12-10	TR6 TNCU 100405	25.0	24.0	0.5	24.52	46.52	-	1.8	17.5	
	TR6 TNCU 100410		23.0	1.0	24.64	46.64	-	2.3	-	
	TR6 TNCU/MU 100415		22.0	1.5	24.76	46.76	-	2.7	-	
	TR6 TNCU 100420		21.0	2.0	24.88	46.88	-	3.5	-	
	TR6 TNCU 100430		19.0	3.0	25.12	47.12	-	4.5	20.5	
	TRFF TXMT 1004		20.6	0.8	25.15	47.15	1.7	-	-	
TR6 ER D32/1.26-4-M16-10	TR90 TXMT 100408	32.0	-	4.0	24.91	46.91	1.6	-	-	
	TR45 TXMT 1004		26.8	20.6	25.12	47.12	1.4	-	-	
	TR6 TNCU 100405		31.0	0.5	34.52	59.52	-	1.8	17.5	
	TR6 TNCU 100410		30.0	1.0	34.64	59.64	-	2.3	-	
TR6 ER D35/1.38-5-M16-10	TR6 TNCU/MU 100415	35.0	29.0	1.5	34.76	59.76	-	2.7	-	
	TR6 TNCU 100420		28.0	2.0	34.88	59.88	-	3.5	-	
	TR6 TNCU 100430		26.0	3.0	35.12	60.12	-	4.5	20.5	
	TRFF TXMT 1004		27.6	0.8	35.15	60.15	1.2	-	-	
	TR90 TXMT 100408		-	4.0	34.91	59.91	1.1	-	-	
	TR45 TXMT 1004		33.8	27.6	3.0	35.12	60.12	0.9	-	-

TR6 FR

 Multifunction Face Mills that can Carry
 Four Different Insert Geometries


Designation	DCX	DC	APMX	APMX_2 ⁽¹⁾	RE	CICT ⁽²⁾	DCONMS	Arbor	DHUB	BHTA	OAL	WT ⁽³⁾	Insert
TR6 FR D40-06-16-10	40.00	35.00	2.50	4.20	2.50	6	16.00	A	32.00	20.5	37.00	0.14	TR6 TNCU 100425
TR6 FR D42-06-16-10	42.00	37.00	2.50	4.20	2.50	6	16.00	A	32.00	20.5	37.00	0.15	TR6 TNCU 100425
TR6 FR D50-07-22-10	50.00	45.00	2.50	4.20	2.50	7	22.00	A	47.00	20.5	40.00	0.29	TR6 TNCU 100425
TR6 FR D52-07-22-10	52.00	47.00	2.50	4.20	2.50	7	22.00	A	47.00	20.5	40.00	0.33	TR6 TNCU 100425
TR6 FR D63-08-22-10	63.00	58.00	2.50	4.20	2.50	8	22.00	A	48.00	20.5	40.00	0.42	TR6 TNCU 100425
TR6 FR D66-08-22-10	66.00	61.00	2.50	4.20	2.50	8	22.00	A	48.00	20.5	40.00	0.46	TR6 TNCU 100425
TR6 FR D80-10-27-10	80.00	75.00	2.50	4.20	2.50	10	27.00	A	60.00	20.5	50.00	0.91	TR6 TNCU 100425

• Note: The data refers to TR6 TNCU 100425 master insert, for other insert radii and geometries refer to the table below

(1) For undercutting (2) Number of inserts (3) Item weight

Spare Parts

Designation	Screw	Key	Screw 1
TR6 FR D40-06-16-10	SR 10508600	T-9/51	SR M8X25DIN912*
TR6 FR D42-06-16-10	SR 10508600	T-9/51	SR M8X25DIN912
TR6 FR D50-07-22-10	SR 10508600	T-9/51	SR M10X25 DIN912
TR6 FR D52-07-22-10	SR 10508600	T-9/51	SR M10X25 DIN912
TR6 FR D63-08-22-10	SR 10508600	T-9/51	SR M10X25 DIN912
TR6 FR D66-08-22-10	SR 10508600	T-9/51	SR M10X25 DIN912
TR6 FR D80-10-27-10	SR 10508600	T-9/51	SR M12X30DIN912

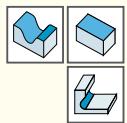
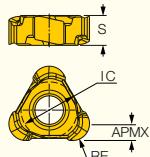
* Optional, should be ordered separately

Tool	Insert	DCX	DC	APMX	OAL	RMPX	For undercutting		
							APMX_2	BHTA	
TR6 FR D40-06-16-10	TR6 TNCU 100405	40.0	39.0	0.5	36.52	-	1.8	17.5	
	TR6 TNCU 100410		38.0	1.0	36.64	-	2.3		
	TR6 TNCU/MU 100415		37.0	1.5	36.76	-	2.7		
	TR6 TNCU 100420		36.0	2.0	36.88	-	3.5		
	TR6 TNCU 100430	41.8	34.0	3.0	37.12	-	4.5	20.5	
	TRFF TXMT 1004		34.0	0.8	37.15	0.9	-		
	TR90 TXMT 100408		-	4.0	36.91	0.9	-		
	TR45 TXMT 1004		35.6	3.0	37.12	0.7	-		
	TR45 TXMT 1004		41.8	35.6	37.12	0.7	-		
TR6 FR D42-06-16-10	TR6 TNCU 100405	42.0	41.0	0.5	36.52	-	1.8	17.5	
	TR6 TNCU 100410		40.0	1.0	36.64	-	2.3		
	TR6 TNCU/MU 100415		39.0	1.5	36.76	-	2.7		
	TR6 TNCU 100420		38.0	2.0	36.88	-	3.5		
	TR6 TNCU 100430	43.8	36.0	3.0	37.12	-	4.5	20.5	
	TRFF TXMT 1004		36.0	0.8	37.15	0.9	-		
	TR90 TXMT 100408		-	4.0	36.91	0.9	-		
	TR45 TXMT 1004		43.8	37.6	37.12	0.7	-		
	TR45 TXMT 1004		43.8	45.6	37.12	0.7	-		
TR6 FR D50-07-22-10	TR6 TNCU 100405	50.0	49.0	0.5	39.52	-	1.8	17.5	
	TR6 TNCU 100410		48.0	1.0	39.64	-	2.3		
	TR6 TNCU/MU 100415		47.0	1.5	39.76	-	2.7		
	TR6 TNCU 100420		46.0	2.0	39.88	-	3.5		
	TR6 TNCU 100430	51.8	44.0	3.0	40.12	-	4.5	20.5	
	TRFF TXMT 1004		44.0	0.8	40.15	0.7	-		
	TR90 TXMT 100408		-	4.0	39.91	0.7	-		
	TR45 TXMT 1004		51.8	45.6	40.12	0.6	-		
	TR45 TXMT 1004		51.8	53.8	40.12	0.6	-		
TR6 FR D52-07-22-10	TR6 TNCU 100405	52.0	51.0	0.5	39.52	-	1.8	17.5	
	TR6 TNCU 100410		50.0	1.0	39.64	-	2.3		
	TR6 TNCU/MU 100415		49.0	1.5	39.76	-	2.7		
	TR6 TNCU 100420		48.0	2.0	39.88	-	3.5		
	TR6 TNCU 100430	53.8	46.0	3.0	40.12	-	4.5	20.5	
	TRFF TXMT 1004		46.0	0.8	40.15	0.7	-		
	TR90 TXMT 100408		-	4.0	39.91	0.7	-		
	TR45 TXMT 1004		53.8	53.8	40.12	0.6	-		
	TR45 TXMT 1004		53.8	53.8	40.12	0.6	-		
TR6 FR D63-08-22-10	TR6 TNCU 100405	63.0	62.0	0.5	39.52	-	1.8	17.5	
	TR6 TNCU 100410		61.0	1.0	39.64	-	2.3		
	TR6 TNCU/MU 100415		60.0	1.5	39.76	-	2.7		
	TR6 TNCU 100420		59.0	2.0	39.88	-	3.5		
	TR6 TNCU 100430	64.8	57.0	3.0	40.12	-	4.5	20.5	
	TRFF TXMT 1004		57.0	0.8	40.15	0.5	-		
	TR90 TXMT 100408		-	4.0	39.91	0.5	-		
	TR45 TXMT 1004		64.8	58.6	40.12	0.4	-		
	TR45 TXMT 1004		64.8	64.8	40.12	0.4	-		
TR6 FR D66-08-22-10	TR6 TNCU 100405	66.0	65.0	0.5	39.52	-	1.8	17.5	
	TR6 TNCU 100410		64.0	1.0	39.64	-	2.3		
	TR6 TNCU/MU 100415		63.0	1.5	39.76	-	2.7		
	TR6 TNCU 100420		62.0	2.0	39.88	-	3.5		
	TR6 TNCU 100430	67.8	60.0	3.0	40.12	-	4.5	20.5	
	TRFF TXMT 1004		60.0	0.8	40.15	0.5	-		
	TR90 TXMT 100408		-	4.0	39.91	0.5	-		
	TR45 TXMT 1004		67.8	61.6	40.12	0.4	-		
	TR45 TXMT 1004		67.8	67.8	40.12	0.4	-		
TR6 FR D80-10-27-10	TR6 TNCU 100405	80.0	79.0	0.5	49.52	-	1.8	17.5	
	TR6 TNCU 100410		78.0	1.0	49.64	-	2.3		
	TR6 TNCU/MU 100415	80.0	77.0	1.5	49.76	-	2.7		
	TR6 TNCU 100420		76.0	2.0	49.88	-	3.5		
	TR6 TNCU 100430		74.0	3.0	50.12	-	4.5	20.5	
	TRFF TXMT 1004	81.8	74.0	0.8	50.15	0.4	-		
	TR90 TXMT 100408		-	4.0	49.91	0.4	-		
	TR45 TXMT 1004		81.8	75.6	50.12	0.3	-		

TOR6MILL PROFILING

TR6 TNCU/MU

Double Sided Inserts with Six Round Cutting Edges, Available in 0.5 Up to 3.0 mm Corner Radii

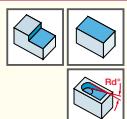
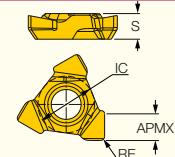


Designation	Dimensions				Tough Hard				Recommended Machining Data	
	RE	APMX	IC	S	IC882	IC830	IC808	IC908	a_p (mm)	f_z (mm/t)
TR6 TNCU 070205	0.50	0.50	5.30	2.80	●	●	●		0.20-0.50	0.10-0.30
TR6 TNCU 070210	1.00	1.00	5.30	2.80		●	●	●	0.20-1.00	0.10-0.30
TR6 TNMU 070215	1.50	1.50	5.30	2.80		●	●	●	0.20-1.50	0.10-0.30
TR6 TNCU 100405	0.50	0.50	7.30	4.20	●	●	●	●	0.20-0.50	0.10-0.30
TR6 TNCU 100410	1.00	1.00	7.30	4.20	●	●	●	●	0.20-1.00	0.10-0.30
TR6 TNCU 100415	1.50	1.50	7.30	4.20	●	●	●	●	0.20-1.50	0.10-0.30
TR6 TNMU 100415	1.50	1.50	7.30	4.20	●	●	●	●	0.20-1.50	0.10-0.30
TR6 TNCU 100420	2.00	2.00	7.30	4.20	●	●	●	●	0.20-2.00	0.10-0.30
TR6 TNCU 100425	2.50	2.50	7.30	4.20	●	●	●	●	0.20-2.50	0.10-0.30
TR6 TNCU 100430	3.00	3.00	7.30	4.20	●	●	●	●	0.20-3.00	0.10-0.30

TOR6MILL PROFILING

TR90 TXMT

Single Sided Insert with Three Cutting Edges for 90° Shoulder and Face Milling

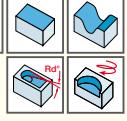
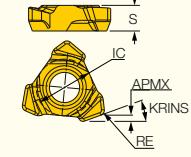


Designation	Dimensions				Tough Hard				Recommended Machining Data	
	APMX	RE	IC	S	IC830	IC808			a_p (mm)	f_z (mm/t)
TR90 TXMT 070204	2.50	0.40	5.30	2.40	●	●			0.50-2.50	0.10-0.20
TR90 TXMT 100408	4.00	0.80	7.30	3.90	●	●			0.90-4.00	0.10-0.20

TOR6MILL PROFILING

TRFF TXMT

Single Sided Insert with Three Cutting Edges for High Feed Machining



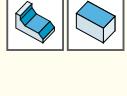
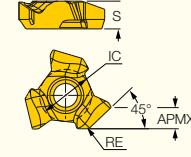
Designation	Dimensions						Tough Hard				Recommended Machining Data	
	APMX	RE	$R_g^{(1)}$	IC	S	KRINS ⁽²⁾	IC830	IC808		a_p (mm)	f_z (mm/t)	
TRFF TXMT 0702	0.60	0.50	1.00	5.30	2.40	18.0	●	●		0.20-0.60	0.50-0.80	
TRFF TXMT 1004	0.80	0.70	1.40	7.30	3.90	17.0	●	●		0.20-0.80	0.70-1.20	

⁽¹⁾ Radius for programming ⁽²⁾ Edge angle related to the wiper

TOR6MILL PROFILING

TR45 TXMT

Single Sided Inserts with Three Cutting Edges for 45° Chamfering and Face Milling



Designation	Dimensions				Tough Hard				Recommended Machining Data	
	APMX	RE	IC	S	IC830	IC808			a_p (mm)	f_z (mm/t)
TR45 TXMT 1004	3.00	0.40	7.30	3.90	●	●			1.00-3.00	0.20-0.40

Indexable Profile Milling 30-32 mm Large Diameters **Ball Master**



No Setup
Time



Ideal for Finishing Applications



Ideal for Semi Finishing and
Roughing Applications



Innovative
Clamping System

Indexable Ball Nose with No Setup
Time for **High Accuracy, Finishing**
and **Semi Finishing Applications**



Ease of Use



Profiling, Roughing,
Semi Finishing &
Finishing applications

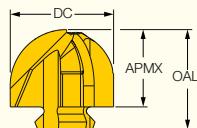


Cost Effective
Insert

MILLCHAM

BCTR-QT

Interchangeable Solid Carbide Ball Nose Milling Heads for High Productivity on Hard Materials



Designation	Dimensions					Tough ↪ Hard
	DC	NOF ⁽¹⁾	APMX	SSC ⁽²⁾	OAL	IC928
BCTR D30-E20-QT-T3	30.00	3	22.00	C30	28.30	•
BCTR D30-E20-QT-T6	30.00	6	28.00	C30	34.30	•
BCTR D32-E20-QT-T3	32.00	3	22.00	C30	28.30	•
BCTR D32-E20-QT-T6	32.00	6	28.00	C30	34.30	•

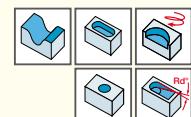
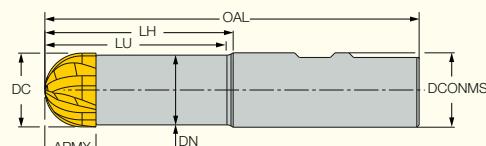
⁽¹⁾ Number of flutes

⁽²⁾ Seat size code

MILLCHAM

BCTM D-W

Weldon Shanks for Ball Nose Solid Carbide Milling Heads



Designation	DC	APMX	DN	LU	LH	OAL	DCONMS	Shank ⁽¹⁾	SSC ⁽²⁾	WT ⁽³⁾
BCTM D30/32-A-L120-W32	30.00	22.00	29.00	37.00	40.00	120.00	32.00	W	C30	0.70
BCTM D30/32-A-L160-W32	30.00	22.00	29.00	77.00	80.00	160.00	32.00	W	C30	0.80

⁽¹⁾ W-Weldon

⁽²⁾ Seat size code

⁽³⁾ Item weight

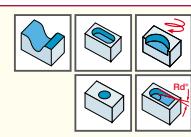
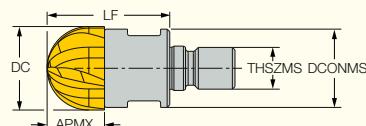
The above table dimensions are valid for BCTR D30-E20-QT-T3 insert only; for other inserts the following data modifications should be calculated:

Designation	DC	APMX	LU	LH	OAL
BCTR D30-E20-QT-T6	+0	+6	+6	+6	+6
BCTR D32-E20-QT-T3	+2	+0	+0	+0	+0
BCTR D32-E20-QT-T6	+2	+6	+6	+6	+6

MILLCHAM

BCTM D-M

Shanks with FLEXFIT Connection for Ball Nose Solid Carbide Milling Heads



Designation	DC	APMX	LF	SSC ⁽¹⁾	DCONMS	THSZMS	WT ⁽²⁾
BCTM D32/1.25-M16	30.00	22.00	47.00	C30	29.00	M16	0.15

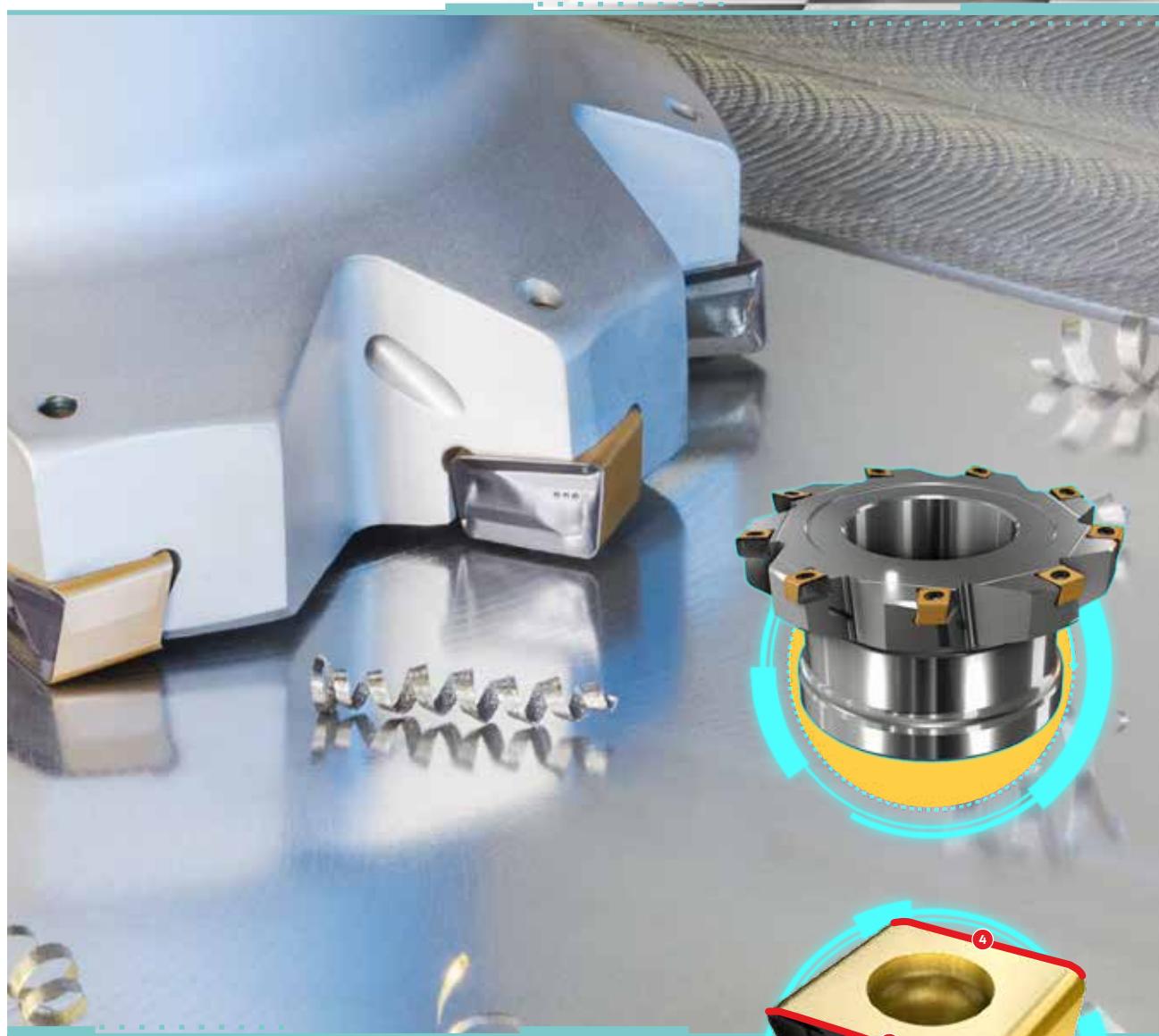
⁽¹⁾ Seat size code

⁽²⁾ Item weight

The above table dimensions are valid for BCTR D30-E20-QT-T3 insert only; for other inserts the following data modifications should be calculated:

Designation	DC	APMX	LF
BCTR D30-E20-QT-T6	+0	+6	+6
BCTR D32-E20-QT-T3	+2	+0	+0
BCTR D32-E20-QT-T6	+2	+6	+6

Mirror Face Milling 50-160 mm Diameters Finish Master



Superior Finish Achieved with
Tangential Step Mounted Inserts



Super Surface
Finish



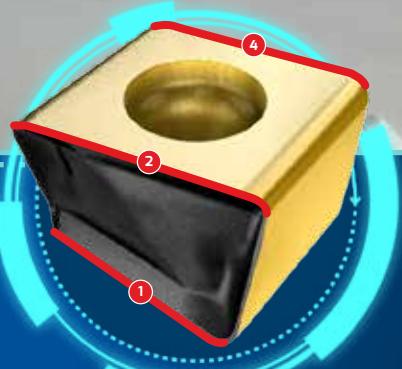
Tangential
Clamping



Double Sided
Insert



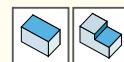
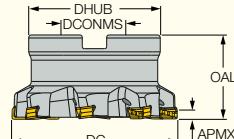
Strong Body
Insert



Tangential Inserts with
4 Cutting Edges

HTF-R-LN10

Face Mills Carrying Tangentially Clamped Inserts with 4 Cutting Edges for Extra Fine Milling Applications



Designation	DC	APMX	CICT ⁽¹⁾	OAL	DHUB	DCONMS	Arbor	WT ⁽²⁾
HTF D050-05-22-R-LN10	50.00	0.25	5	40.00	48.00	22.00	A	Y 0.31
HTF D063-06-22-R-LN10	63.00	0.30	6	40.00	48.00	22.00	A	Y 0.43
HTF D080-07-27-R-LN10	80.00	0.35	7	50.00	60.00	27.00	B	Y 0.81
HTF D100-08-32-R-LN10	100.00	0.40	8	50.00	78.00	32.00	B	Y 1.44
HTF D125-09-40-R-LN10	125.00	0.45	9	63.00	92.00	40.00	B	Y 2.55
HTF D160-10-40-R-LN10	160.00	0.50	10	63.00	95.00	40.00	C	N 3.75

(1) Number of inserts

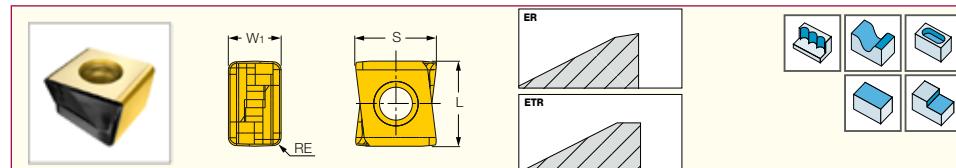
(2) Item weight

Spare Parts

Designation	SR 34-550	BLD T10/S7	SW6-SD	SR M10X25 DIN912
HTF D050-05-22-R-LN10	SR 34-550	BLD T10/S7	SW6-SD	
HTF D063-06-22-R-LN10	SR 34-550	BLD T10/S7	SW6-SD	
HTF D080-07-27-R-LN10	SR 34-550	BLD T10/S7	SW6-SD	
HTF D100-08-32-R-LN10	SR 34-550	BLD T10/S7	SW6-SD	
HTF D125-09-40-R-LN10	SR 34-550	BLD T10/S7	SW6-SD	
HTF D160-10-40-R-LN10	SR 34-550	BLD T10/S7	SW6-SD	

HTP LN.. 1006

Tangentially Clamped Inserts with 4 Cutting Edges for Plungers

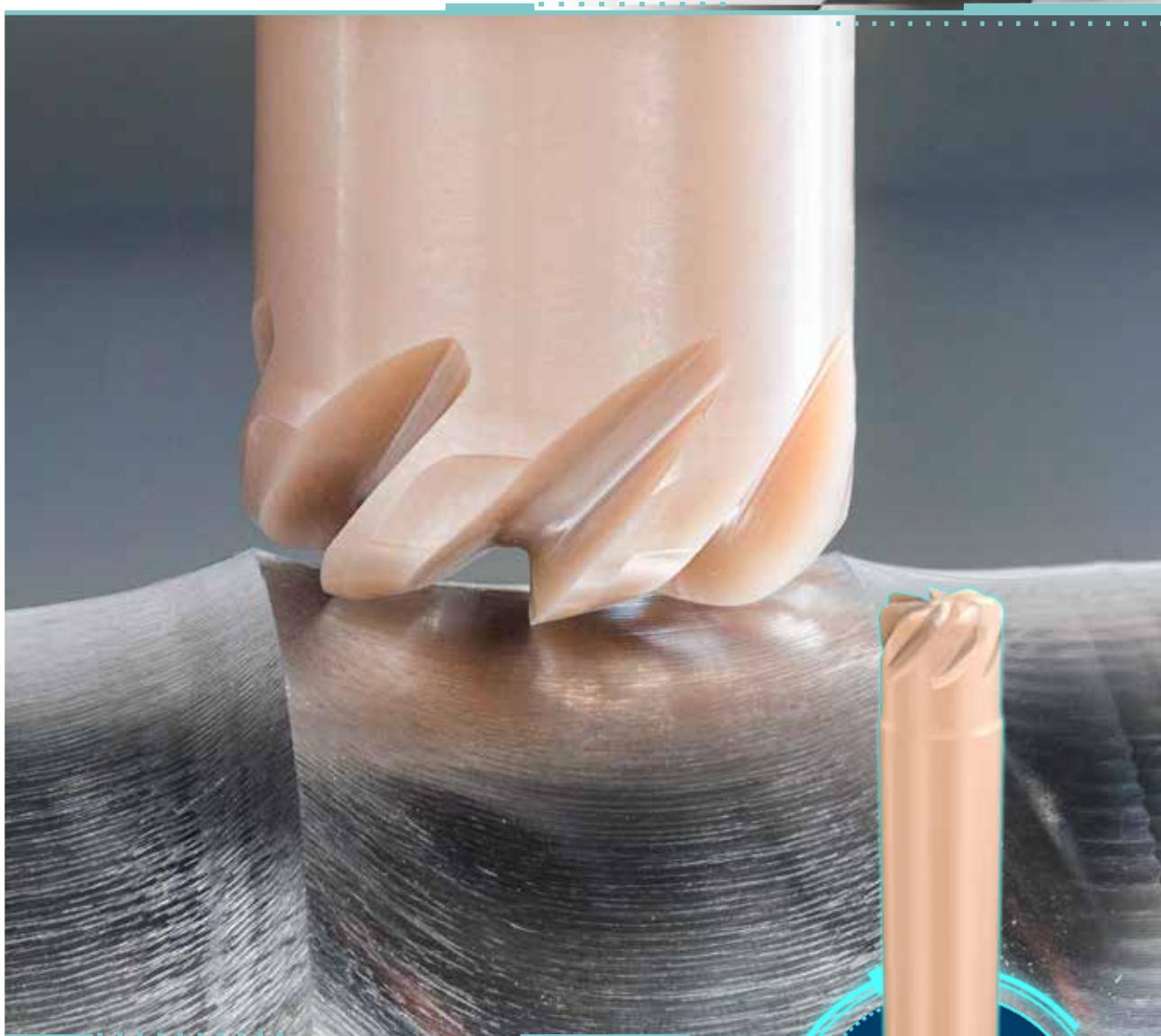


Designation	Dimensions				Tough ↪ Hard				
	W1	L	S	RE	IC330	IC830	IC808	IC810	IC07
HTP LNAR 1006 FR-P	6.50	10.50	10.13	1.00					•
HTP LNHT 1006 ER	6.50	10.50	9.93	1.00	•	•	•	•	
HTP LNHT 1006 ETR	6.50	10.50	9.93	1.00	•	•	•	•	
HTP LNMT 1006 ER⁽¹⁾	6.50	10.50	9.96	1.00	•	•	•	•	

(1) Mounting this insert increases tool diameter by 0.1 mm

SOLIDMILL
CERAMIC END MILL

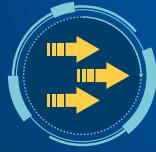
**High Feed
Dia 6-20 mm
Ceramic Master**



**High Feed Ceramic Endmill
for Cost Effectiveness and
High Productivity**



Rough Application



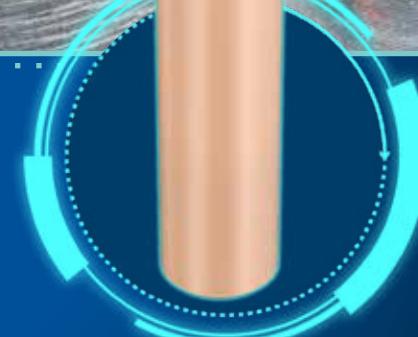
High Feed Milling Geometry



High Productivity



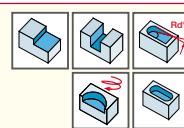
Cost Effective Insert



Solid Ceramic
Endmill Cutter

LOGIQMILL
ISCAR CHESS LINES

EC-E3/E7-CE (ceramic)
3 and 7 Flute Solid Ceramic Endmills
with Relieved Necks for Machining
Superalloys, Cast Iron and Graphite



Designation	Dimensions										Tough ↔ Hard	Recommended Machining Data
	DC	APMX	DN	DCONMS	RE ⁽¹⁾	LU	NOF ⁽²⁾	LH	OAL	IS35	IS6	
EC-E3 06-06/15C06R.4N50CE	6.00	6.00	5.50	6.00	0.42	14.5	3	15.0	50.00	●		0.03-0.10
EC-E3 08-08/20C08R.5N57CE	8.00	8.00	7.50	8.00	0.56	19.5	3	20.0	57.00	●		0.03-0.14
EC-E3 10-10/25C10R.7N65CE	10.00	10.00	9.50	10.00	0.70	24.5	3	25.0	65.00	●		0.03-0.16
EC-E3 12-12/30C12R1.N72CE	12.00	12.00	11.50	12.00	1.10	29.5	3	30.0	72.00	●		0.03-0.18
EC-E3 16-16/35C16R2.N83CE	16.00	16.00	15.50	16.00	1.90	34.5	3	35.0	83.00	●		0.03-0.22
EC-E3 20-20/40C20R2.N93CE	20.00	20.00	19.50	20.00	2.50	39.5	3	40.0	93.00	●		0.03-0.24
EC-E7 08-02C08R1.0N63CE	8.00	0.40	7.50	8.00	1.00	8.0	7	9.5	63.00		●	0.03-0.10
EC-E7 10-02C10R1.5N72CE	10.00	0.70	9.50	10.00	1.50	10.0	7	11.5	72.00		●	0.03-0.12
EC-E7 12-02C12R1.5N83CE	12.00	1.30	11.50	12.00	1.50	10.0	7	12.0	83.00		●	0.03-0.15

• Recommended cutting speed on high temperature nickel-based superalloys: 250-700 m/min • Maximum width of cut for the 3 flute cutters is 0.1xD

(1) Programming radius

(2) Number of flutes

P	M	K	N(K)	S(M)	H(P/K)
		+	+	+	

+ recommended





Round Tools with Secure Clamping Lock Master



Tool Shank is
Screwed into the Holder to
Prevent Tool Pull-Out

SURELOCK Solid Carbide Tools

Securely Clamped
Round Tools Designed to
Prevent Tool Pull-Out



Ease of Use



Variety



New Generation
Insert



Rigid Clamping

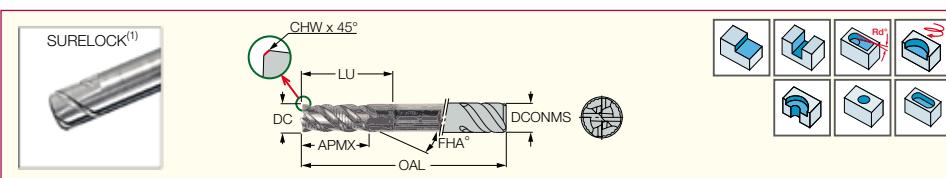


SURELOCK Solid Carbide and Steel
Multi-Master Shanks

SURELOCK
RIGID CLAMPING

EFS-B44

Combination of Roughing and Finishing Solid Carbide Endmills in a Single Tool



Designation	Dimensions										IC900	f_z (mm/t)	Recommended Machining Data
	DC	DCONMS	APMX	LU	OAL	NOF ⁽²⁾	FHA ⁽³⁾	RMPX	CHW	Coolant			
EFS-B44 10-22/32SL10-72	10.00	10.00	22.00	32.0	72.00	4	45.0	5.0	0.30	N	●	0.03-0.09	
EFS-B44 10-22SL10-72	10.00	10.00	22.00	-	72.00	4	45.0	5.0	0.30	N	●	0.03-0.09	
EFS-B44 10-22SL10-72C	10.00	10.00	22.00	-	72.00	4	45.0	5.0	0.30	Y	●	0.04-0.07	
EFS-B44 12-26/38SL12-83	12.00	12.00	26.00	38.0	83.00	4	45.0	5.0	0.40	N	●	0.04-0.10	
EFS-B44 12-26SL12-83	12.00	12.00	26.00	-	83.00	4	45.0	5.0	0.40	N	●	0.04-0.10	
EFS-B44 12-26SL12-83C	12.00	12.00	26.00	-	83.00	4	45.0	5.0	0.40	Y	●	0.04-0.08	
EFS-B44 16-34/50SL16-100	16.00	16.00	34.00	50.0	100.00	4	45.0	5.0	0.60	N	●	0.05-0.11	
EFS-B44 16-34SL16-92	16.00	16.00	34.00	-	92.00	4	45.0	5.0	0.60	N	●	0.05-0.11	
EFS-B44 16-34SL16-92C	16.00	16.00	34.00	-	92.00	4	45.0	5.0	0.60	Y	●	0.05-0.08	
EFS-B44 20-42/62SL20-125	20.00	20.00	42.00	62.0	125.00	4	45.0	5.0	0.60	N	●	0.05-0.11	
EFS-B44 20-42SL20-104	20.00	20.00	42.00	-	104.00	4	45.0	5.0	0.60	N	●	0.05-0.11	
EFS-B44 25-52SL25-121	25.00	25.00	52.00	-	121.00	4	45.0	5.0	0.60	N	●	0.06-0.11	

⁽¹⁾ With Safe-Lock® (by Haimer) pull-out prevention helical grooves

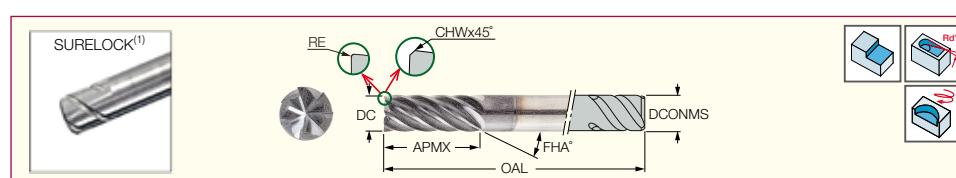
⁽²⁾ Number of flutes

⁽³⁾ Helix angle

SURELOCK
RIGID CLAMPING

EC-E7/H7-CF

7 Flute Endmills with Different Helix and Variable Pitch for Chatter Free High Speed Finish Milling



Designation	Dimensions										IC902	f_z (mm/t)	Recommended Machining Data
	DC	DCONMS	APMX	OAL	NOF ⁽²⁾	FHA ⁽³⁾	RMPX	CHW	RE				
EC-H7 12-24SL12CF-M83	12.00	12.00	24.00	83.00	7	37.0	3.0	-	-	●	0.04-0.12		
EC-H7 12-24SL12CFR.6M83	12.00	12.00	24.00	83.00	7	37.0	3.0	-	0.6	●	0.04-0.12		
EC-H7 12-36SL12CF-M110	12.00	12.00	36.00	110.00	7	37.0	3.0	0.3	-	●	0.04-0.12		
EC-H7 12-48SL12CF-110	12.00	12.00	48.00	110.00	7	37.0	3.0	0.3	-	●	0.04-0.12		
EC-H7 12-72SL12CF-140	12.00	12.00	72.00	140.00	7	37.0	3.0	0.3	-	●	0.04-0.12		
EC-H7 16-32SL16CF-M92	16.00	16.00	32.00	92.00	7	37.0	3.0	-	-	●	0.04-0.12		
EC-H7 16-32SL16CFR.8M92	16.00	16.00	32.00	92.00	7	37.0	3.0	-	0.8	●	0.04-0.12		
EC-H7 16-48SL16CF-M131	16.00	16.00	48.00	131.00	7	37.0	3.0	0.3	-	●	0.04-0.12		
EC-H7 16-64SL16CF-131	16.00	16.00	64.00	131.00	7	37.0	3.0	0.3	-	●	0.04-0.12		
EC-H7 16-96SL16CF-175	16.00	16.00	96.00	175.00	7	37.0	3.0	0.3	-	●	0.04-0.12		
EC-H7 20-40SL20CF-M104	20.00	20.00	40.00	104.00	7	37.0	3.0	-	-	●	0.04-0.12		
EC-H7 20-40SL20CFR1M104	20.00	20.00	40.00	104.00	7	37.0	3.0	-	-	●	0.05-0.15		
EC-H7 20-60SL20CF-M140	20.00	20.00	60.00	140.00	7	37.0	3.0	0.4	-	●	0.05-0.15		
EC-H7 20-80SL20CF-140	20.00	20.00	80.00	140.00	7	37.0	3.0	0.4	-	●	0.05-0.15		

• Can machine at radial width of cut (ae) of up to 0.10xD

⁽¹⁾ With Safe-Lock® (by Haimer) pull-out prevention helical grooves

⁽²⁾ Number of flutes

⁽³⁾ Helix angle

EC-H-CF

6-20 Flute Endmills with Different Helix and Variable Pitch for **CHATTERFREE** High Speed Finish Milling



Designation	Dimensions							IC902	Recommended Machining Data f_z (mm/t)
	DC	DCONMS	APMX	OAL	NOF ⁽²⁾	FHA ⁽³⁾	CHW		
EC-H10 10-20SL10CF-H72 92	10.00	10.00	20.00	72.00	10	35.0	3.0	●	0.03-0.10
EC-H12 12-24SL12CF-H83 92	12.00	12.00	20.00	72.00	12	35.0	3.0	●	0.04-0.11
EC-H16 16-32SL16CF-H92 92	16.00	16.00	20.00	72.00	16	35.0	3.0	●	0.05-0.13
EC-H20 20-40SL20CFH104 92	20.00	20.00	20.00	72.00	20	35.0	3.0	●	0.05-0.13

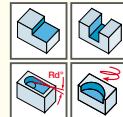
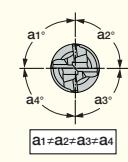
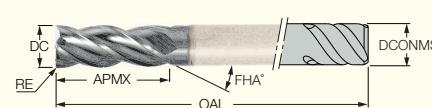
⁽¹⁾ With Safe-Lock® (by Haimer) pull-out prevention helical grooves

⁽²⁾ Number of flutes

⁽³⁾ Helix angle

ECK-H4M-CFR

Endmills with Different Helix, Chamfered Edges and Variable Pitch for Chatter Dampening on Titanium



Designation	Dimensions								IC900	Recommended Machining Data f_z (mm/t)
	DC	DCONMS	APMX	OAL	NOF ⁽²⁾	RE	FHA ⁽³⁾	RPMX		
ECK-H4 10-20SL10CFR.5-72C	10.00	10.00	20.00	72.00	4	0.50	36.0	5.0	Y	● 0.03-0.07
ECK-H4 10-20SL10CFR0.5-72	10.00	10.00	20.00	72.00	4	0.50	36.0	5.0	N	● 0.03-0.07
ECK-H4 12-24SL12CFR0.6-83	12.00	12.00	24.00	83.00	4	0.60	36.0	5.0	N	● 0.04-0.08
ECK-H4 16-32SL16CFR.8-92C	16.00	16.00	32.00	92.00	4	0.80	36.0	5.0	Y	● 0.05-0.08
ECK-H4 16-32SL16CFR0.8-92	16.00	16.00	32.00	92.00	4	0.80	36.0	5.0	N	● 0.05-0.08
ECK-H4 20-40SL20CFR1.-104	20.00	20.00	40.00	104.00	4	1.00	36.0	5.0	N	● 0.05-0.08

⁽¹⁾ With Safe-Lock® (by Haimer) pull-out prevention helical grooves

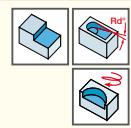
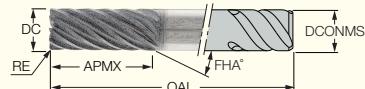
⁽²⁾ Number of flutes

⁽³⁾ Helix angle

ECK-H7/9-CFR

7 and 9 Flute Endmills with Different Helix and Variable Pitch for Chatter Dampening on Titanium

SURELOCK⁽¹⁾

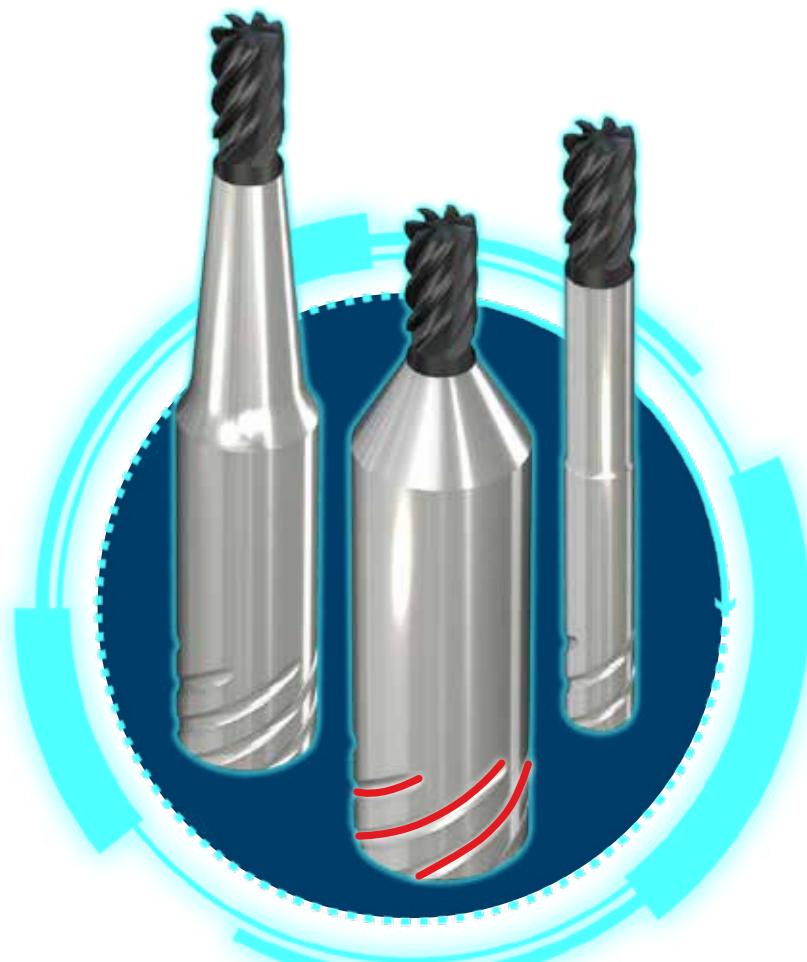


Designation	Dimensions								IC900
	DC	DCONMS	APMX	OAL	NOF ⁽²⁾	RE	FHA ⁽³⁾	RMPX	
ECK-H7 10-22SL10CFR0.5T72	10.00	10.00	22	72.00	7	0.50	35.0	5.0	•
ECK-H7 12-26SL12CFR0.6T83	12.00	12.00	26	83.00	7	0.60	35.0	5.0	•
ECK-H9 16-32SL16CFR0.8T92	16.00	16.00	32	92.00	9	0.80	35.0	5.0	•
ECK-H9 20-38SL20CFR1T104	20.00	20.00	38	104.00	9	1.00	35.0	5.0	•

⁽¹⁾ With Safe-Lock® (by Haimer) pull-out prevention helical grooves

⁽²⁾ Number of flutes

⁽³⁾ Helix angle



SAFE-LOCK®
by HAIMER

Indexable Solid Carbide Endmill Long Cutting Edge 1.5xD Flute Master



Multi-Master Heads
1.5xD Length
8-25 mm Diameters

New Long Flute Multi-Master Heads Length Ratio 1.5xD



Ease of Use



Different Types
of Materials



Roughing
Semi-Finishing &
Finishing

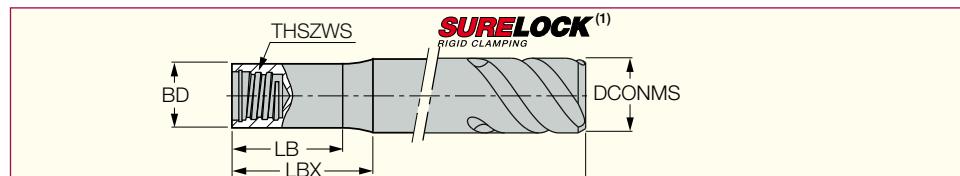


Cost Effective
Insert



12-25 mm Diameters

MULTI-MASTER
INDEXABLE SOLID CARBIDE LINE

MM S-A (stepped shanks)
Stepped Cylindrical Shanks for
Interchangeable Milling Heads


Designation	THSZWS	DCONMS	BD	LB	LBX	OAL	Shank m. ⁽²⁾	Coolant	RPM max ⁽³⁾
MM S-A-L065/24-SL08T05C (1)	T05	8.00	7.60	24.00	25.6	65.00	C	N	60000
MM S-A-L075/30-SL10T06C (1)	T06	10.00	9.60	30.00	31.7	75.00	C	N	53940
MM S-A-L085/36-SL12T08C (1)	T08	12.00	11.60	36.00	37.7	85.00	C	N	60000
MM S-A-L100/48-SL16T10C (1)	T10	16.00	15.30	48.00	50.3	100.00	C	N	38040
MM S-A-L110/50-SL20T12C (1)	T12	20.00	18.30	50.00	53.3	110.00	C	N	60000
MM S-A-L125/63-SL25T15C (1)	T15	25.00	24.00	63.00	65.8	125.00	C	N	41700
MM S-A-L135/64-SL32T21C (1)	T21	32.00	30.00	64.00	67.5	135.00	C	N	12690

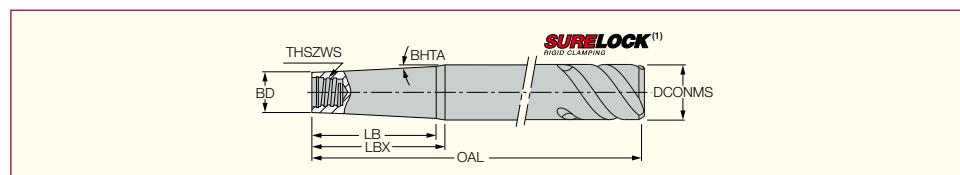
• Do not apply lubricant to the threaded connection.

(1) With Safe-Lock® (by Haimer) pull-out prevention helical grooves

(2) S-steel, C-carbide, W-tungsten

(3) The maximum RPM must be calculated. Divide the listed max. RPM by the number of flutes (on the milling head) being used.

MULTI-MASTER
INDEXABLE SOLID CARBIDE LINE

MM S-B (85° conical shanks)
85° Conical Shanks for
Interchangeable Milling Heads


Designation	THSZWS	DCONMS	BD	BHTA	Shank ⁽²⁾	LB	OAL	Shank m.	LBX	RPM max ⁽³⁾
MM S-B-L085/32-SL16T05 (1)	T05	16.00	7.60	5.0	C	27.0	85.00	S	32.00	41280
MM S-B-L095/40-SL20T06 (1)	T06	20.00	9.60	5.0	C	34.0	95.00	S	40.00	41280
MM S-B-L100/48-SL20T08 (1)	T08	20.00	11.60	5.0	C	48.0	100.00	S	-	25590
MM S-B-L120/55-SL25T10 (1)	T10	25.00	15.30	5.0	C	55.4	120.00	S	-	29490
MM S-B-L150/78-SL32T12 (1)	T12	32.00	18.30	5.0	C	78.3	150.00	S	-	34890
MM S-B-L180/92-SL40T15 (1)	T15	40.00	23.90	5.0	C	92.0	180.00	S	-	14160
MM S-B-L150/57-SL40T21 (1)	T21	40.00	30.00	5.0	C	57.0	150.00	S	-	21840

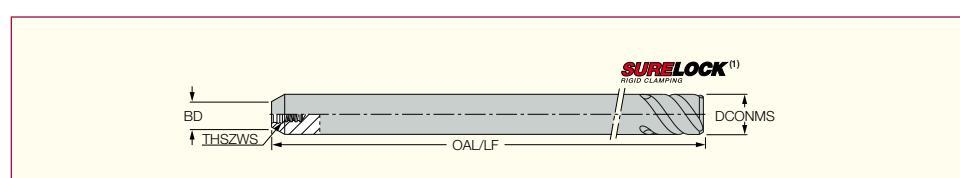
• Shank material (Shank m.): S-steel, W-tungsten.

• Do not apply lubricant to the threaded connection.

(1) With Safe-Lock® (by Haimer) pull-out prevention helical grooves

(3) The maximum RPM must be calculated. Divide the listed max. RPM by the number of flutes (on the milling head) being used.

MULTI-MASTER
INDEXABLE SOLID CARBIDE LINE

MM S-A (straight shanks)
Shanks for Interchangeable
Milling Heads


Designation	THSZWS	DCONMS	BD	OAL	Shank m. ⁽⁴⁾	RPM max ⁽⁵⁾
MM S-A-L070-SL20T05 (1)	T05	20.00	7.60	70.00	S	999
MM S-A-L080-SL25T06 (1)	T06	25.00	9.60	80.00	S	999
MM S-A-L080-SL25T08 (1)	T08	25.00	11.60	80.00	S	999
MM S-A-L080-SL32T10 (1)	T10	32.00	15.30	80.00	S	999
MM S-A-L080-SL32T12 (1)	T12	32.00	18.30	80.00	S	999
MM S-A-L100-SL40T15 (1)	T15	40.00	23.90	100.00	S	999
MM S-A-L100-SL40T21 (1)	T21	40.00	30.00	100.00	S	999

• Do not apply lubricant to the threaded connection.

(1) With Safe-Lock® (by Haimer) pull-out prevention helical grooves

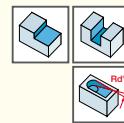
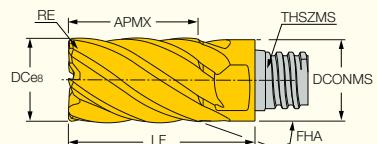
(2) "B" suffix - cylindrical shank which may be shortened.

(4) S-steel

(5) The maximum RPM must be calculated. Divide the listed max. RPM by the number of flutes (on the milling head) being used.

MULTI-MASTER
INDEXABLE SOLID CARBIDE LINE
MM EC-CF-Z7/9-1.5xD

Interchangeable 7, 9 Flute Solid Carbide Endmill Heads 30° and 45° Helix with 1.5xD Flute Lengths

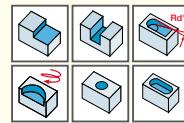
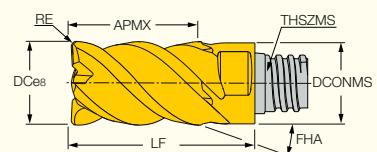


Designation	Dimensions									IC908	Recommended Machining Data f_z (mm/t)
	DC	NOF ⁽¹⁾	APMX	RE	THSZMS	DCONMS	LF	FHA	RMPX ⁽²⁾		
MM EC080H12R05CF-7T05	8.00	7	12.00	0.50	T05	7.70	18.00	36.0	3.0	●	0.03-0.10
MM EC100H15R05CF-7T06	10.00	7	15.00	0.50	T06	9.60	22.00	36.0	3.0	●	0.04-0.10
MM EC120H18R05CF-7T08	12.00	7	18.00	0.50	T08	11.70	27.00	36.0	3.0	●	0.04-0.10
MM EC160H24R08CF-9T10	16.00	9	24.00	0.80	T10	15.30	33.50	36.0	1.0	●	0.05-0.10
MM EC200H30R10CF-9T12	20.00	9	30.00	1.00	T12	18.45	41.00	36.0	1.0	●	0.05-0.10
MM EC250H37R10CF-9T15	25.00	9	37.00	1.00	T15	23.90	52.50	36.0	1.0	●	0.05-0.10

• Do not apply lubricant to the threaded connection. ⁽¹⁾ Number of flutes ⁽²⁾ Ramping angle maximum

MULTI-MASTER
INDEXABLE SOLID CARBIDE LINE
MM EC-CF-Z4-1.5xD

Interchangeable Solid Carbide Endmill Heads with 1.5xD Flute Lengths for Chatter Free Roughing and Finishing

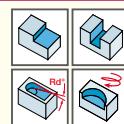
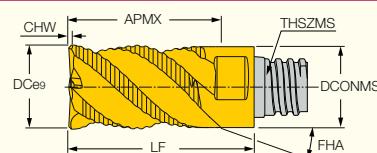


Designation	Dimensions									IC908	Recommended Machining Data f_z (mm/t)
	DC	NOF ⁽¹⁾	APMX	RE	THSZMS	DCONMS	LF	FHA	RMPX ⁽²⁾		
MM EC080H12R05CF-4T05	8.00	4	12.00	0.50	T05	7.70	18.00	46.5	●	●	0.03-0.09
MM EC100H15R05CF-4T06	10.00	4	15.00	0.50	T06	9.60	22.00	46.5	●	●	0.03-0.10
MM EC120H18R05CF-4T08	12.00	4	18.00	0.50	T08	11.70	27.00	46.5	●	●	0.04-0.11
MM EC160H24R05CF-4T10	16.00	4	24.00	0.50	T10	15.30	33.50	46.5	●	●	0.05-0.13
MM EC200H30R05CF-4T12	20.00	4	30.00	0.50	T12	18.45	41.00	46.5	●	●	0.05-0.17
MM EC250H37R05CF-4T15	25.00	4	37.00	0.50	T15	23.90	52.50	46.5	●	●	0.06-0.17

• Do not apply lubricant to the threaded connection. ⁽¹⁾ Number of flutes

MULTI-MASTER
INDEXABLE SOLID CARBIDE LINE
MM ERS-1.5xD

Interchangeable Solid Carbide Rough Milling Heads with 1.5xD Flute Lengths for High Metal Removal Rates



Designation	Dimensions									IC908	Recommended Machining Data f_z (mm/t)
	DC	NOF ⁽¹⁾	APMX	CHW	THSZMS	DCONMS	LF	FHA	RMPX ⁽²⁾		
MM ERS080B12-4T05	8.00	4	12.00	0.25	T05	7.70	18.00	46.0	90.0	●	0.03-0.08
MM ERS100B15-4T06	10.00	4	15.00	0.30	T06	9.60	22.00	46.0	90.0	●	0.03-0.09
MM ERS120B18-4T08	12.00	4	18.00	0.35	T08	11.70	27.00	46.0	90.0	●	0.04-0.10
MM ERS160B24-5T10	16.00	5	24.00	0.40	T10	15.30	33.50	40.0	7.0	●	0.04-0.10
MM ERS200B30-6T12	20.00	6	30.00	0.40	T12	18.45	41.00	47.0	3.0	●	0.05-0.11
MM ERS250B37-6T15	25.00	6	37.00	0.50	T15	23.90	52.50	47.0	3.0	●	0.05-0.11

• Do not apply lubricant to the threaded connection. ⁽¹⁾ Number of flutes ⁽²⁾ Ramping angle maximum

Interchangeable Solid Carbide Face Milling Heads



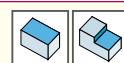
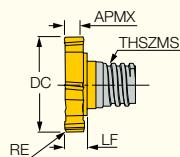
MULTI-MASTER
INDEXABLE SOLID CARBIDE LINE

MM FM

Interchangeable Solid Carbide Face

Milling Heads with

MULTI-MASTER Threaded
Connections



Designation	Dimensions							908	f_z (mm/t)
	DC	LF	APMX	NOF ⁽¹⁾	RE	THSZMS			
MM FM120-36R0.2-06T05	12.00	4.40	3.60	6	0.20	T05	T-20/3*	●	0.04-0.10
MM FM160-48R0.4-06T06	16.00	5.60	4.80	6	0.40	T06	T-20/3*	●	0.05-0.10
MM FM200-60R0.4-06T08	20.00	6.80	6.00	6	0.40	T08	T-40/3 L*	●	0.05-0.10
MM FM250-75R0.4-06T10	25.00	8.40	7.50	6	0.40	T10	T-40/3 L*	●	0.05-0.10

⁽¹⁾ Number of flutes * Optional, should be ordered separately



Indexable Solid Carbide Dia 32-50 mm Face Milling Master



Small Diameter
Exchangeable Solid Carbide
Heads for Face Milling



High Productivity



Shorter Overhang Provides Stability



Precision

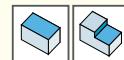
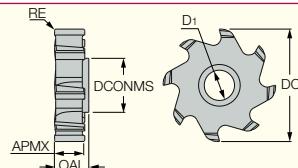


Cost Effective Insert



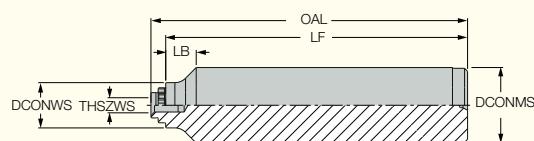
Multiple Cutting Edges
Face Milling Heads

LOGIQMILL
ISCAR CHESS LINES



Designation	Dimensions							IC908	Recommended Machining Data f_z (mm/t)
	DC	APMX	NOF ⁽¹⁾	RE	D1	DCONMS	OAL		
SD FM D32-8-R0.4-SP15	31.25	8.00	8	0.40	8.40	15.00	8.00	●	0.04-0.15
SD FM D40-10-R0.4SP17	39.25	10.00	10	0.40	9.80	17.00	10.00	●	0.04-0.15
SD FM D50-12-R0.4SP19	49.25	12.00	12	0.40	9.80	19.00	14.00	●	0.04-0.15

⁽¹⁾ Number of flutes



Designation	DCONMS	DCONWS	THSZWS	LB	LF	OAL	Shank ⁽¹⁾	WT ⁽²⁾
SD FM-S-A-L100-C25-SP15	25.00	15.00	M5x0.5	10.10	100.00	104.90	C	0.37
SD FM-S-A-L120-W25-SP15	25.00	15.00	M5x0.5	10.10	120.00	124.90	W	0.44
SD FM-S-A-L125-W32-SP17	32.00	17.00	M6x0.5	12.50	125.00	131.00	W	0.75
SD FM-S-A-L140-C32 SP17	32.00	17.00	M6x0.5	12.50	140.00	146.00	C	0.85
SD FM-S-A-L140-C32-SP19	32.00	19.00	M6x0.5	10.00	140.00	148.50	C	1.41
SD FM-S-A-L130-W40-SP19	40.00	19.00	M6x0.5	14.00	130.00	138.50	W	1.21

• Apply lubricant to the clamping screw

⁽¹⁾ C-Cylindrical, W-Weldon

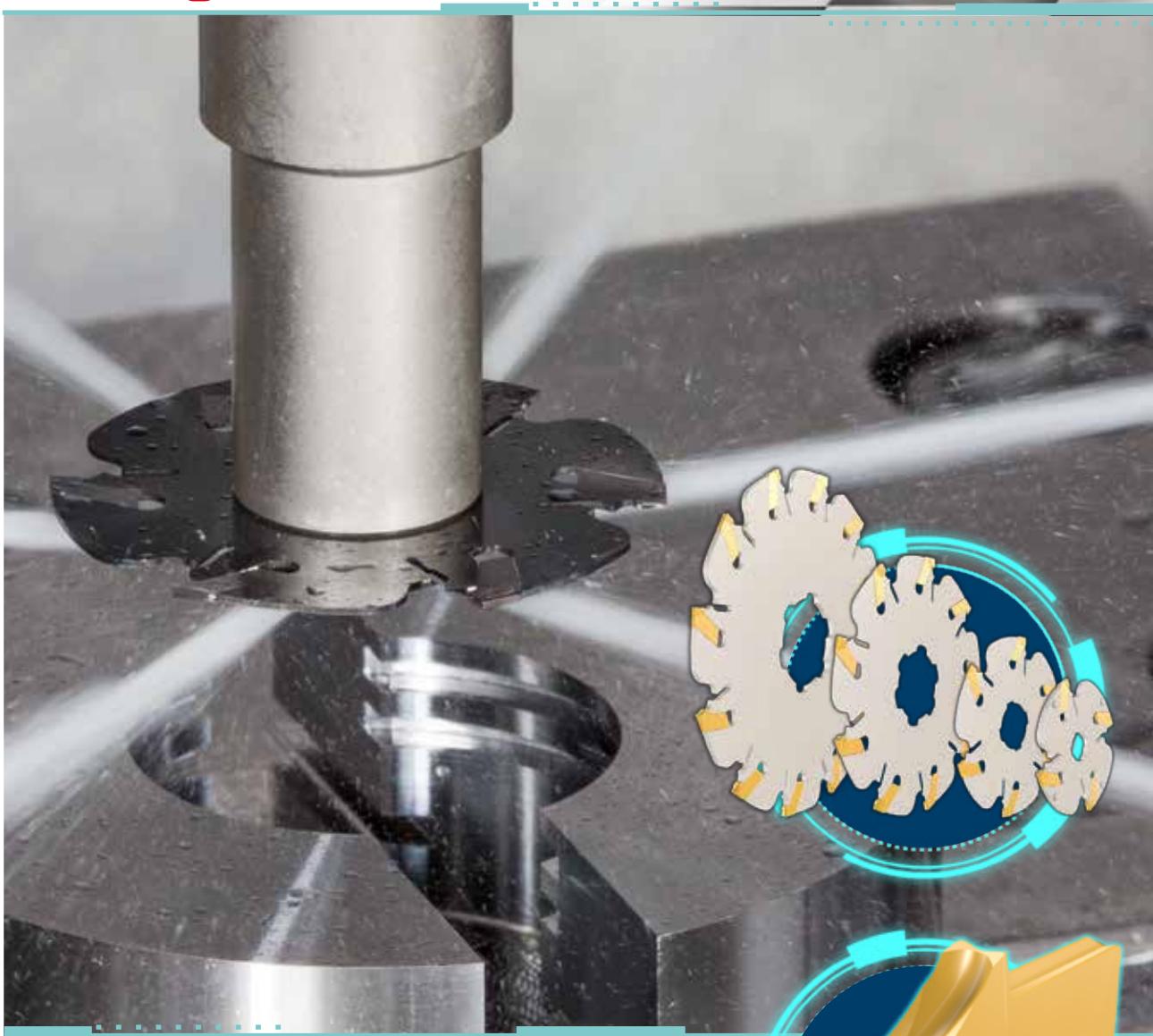
⁽²⁾ Item weight

Spare Parts

Designation			
SD FM-S-A-L100-C25-SP15	SR M5X0.5-SP15-IP20-HG	BLD IP20/S7	SW6-T-SH
SD FM-S-A-L120-W25-SP15	SR M5X0.5-SP15-IP20-HG	BLD IP20/S7	SW6-T-SH
SD FM-S-A-L125-W32-SP17	SR M6X0.5-SP17-IP20-HG	BLD IP20/S7	SW6-T-SH
SD FM-S-A-L140-C32 SP17	SR M6X0.5-SP17-IP20-HG	BLD IP20/S7	SW6-T-SH
SD FM-S-A-L140-C32-SP19	SR M6X0.5-SP17-IP20-HG	BLD IP20/S7	SW6-T-SH
SD FM-S-A-L130-W40-SP19	SR M6X0.5-SP17-IP20-HG	BLD IP20/S7	SW6-T-SH

SLIMSLIT
NARROW SLITTING

Narrowest Indexable Cutter 0.8-1.2 mm Inserts Width Slitting Master



**Narrowest Indexable
Slitting Cutter
in the Market**



Narrow Insert



High Pressure
Coolant



New Generation



Cost Effective
Insert

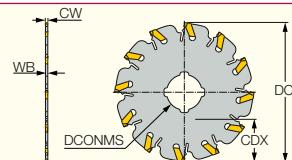


Narrowest Insert Width of
0.8 - 1.2mm

LOGIQMILL
ISCAR CHESS LINES

SLIMSLIT

NARROW SLITTING

SGSTThin Slitting Cutters Carrying
SELF-GRIP Inserts

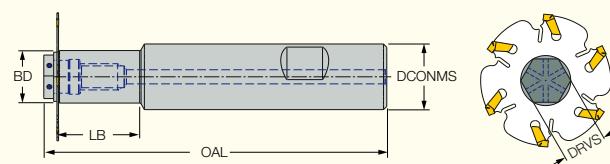
Designation	DC	CW	CICT ⁽¹⁾	WB	DCONMS	CDX	RPMX ⁽²⁾	Insert	
SGST 32-8-0.8-4Z	32.00	0.80	4	0.69	8.00	8.00	2490	GFT 0.8	ESG-SLM*
SGST 32-8-1.0-4Z	32.00	1.00	4	0.90	8.00	8.00	2490	GFT 1.0	ESG-SLM*
SGST 32-8-1.2-4Z	32.00	1.20	4	1.06	8.00	8.00	2490	GFT 1.2	ESG-SLM*
SGST 40-10-0.8-6Z	40.00	0.80	6	0.69	10.00	12.00	1990	GFT 0.8	ESG-SLM*
SGST 40-10-1.0-6Z	40.00	1.00	6	0.90	10.00	12.00	1990	GFT 1.0	ESG-SLM*
SGST 40-10-1.2-6Z	40.00	1.20	6	1.06	10.00	12.00	1990	GFT 1.2	ESG-SLM*
SGST 50-13-0.8-9Z	50.00	0.80	9	0.69	13.00	12.50	1590	GFT 0.8	ESG-SLM*
SGST 50-13-1.0-9Z	50.00	1.00	9	0.90	13.00	12.50	1590	GFT 1.0	ESG-SLM*
SGST 50-13-1.2-9Z	50.00	1.20	9	1.06	13.00	12.50	1590	GFT 1.2	ESG-SLM*
SGST 63-16-1.0-12Z	63.00	1.00	12	0.90	16.00	19.00	1260	GFT 1.0	ESG-SLM*
SGST 63-16-1.2-12Z	63.00	1.20	12	1.06	16.00	19.00	1260	GFT 1.2	ESG-SLM*

⁽¹⁾ Number of inserts⁽²⁾ Maximum RPM

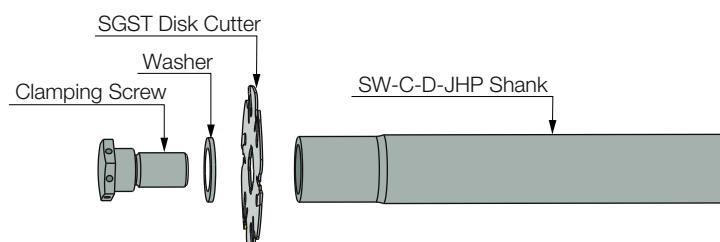
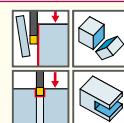
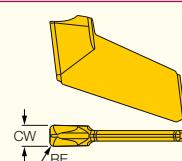
* Optional, should be ordered separately

SLIMSLIT
NARROW SLITTING**SW-C-D-JHP**

Shanks for SGST Slim Slot Milling Disk Cutters



Designation	DCONMS	BD	LB	OAL	DRVS ⁽¹⁾		
SW 16C-D32-JHP	16.00	15.00	25.00	104.00	13.0	SCREW CLAMP-D32-JHP	MM KEY 13X8
SW 20C-D40-JHP	20.00	16.00	25.00	104.00	13.0	SCREW CLAMP-D40-JHP	MM KEY 13X8
SW 25C-D50-JHP	25.00	-	-	115.00	20.0	SCREW CLAMP-D50-JHP	MM KEY 20
SW 25C-D63-JHP	25.00	-	-	115.00	20.0	SCREW CLAMP-D63-JHP	MM KEY 20

⁽¹⁾ Key flat size**SLIMGRIP**
NARROW INSERTS**GFT-J**Thin Parting, Grooving & Slitting
Single-Ended Inserts for Soft Materials

Designation	Dimensions		Tough ↪ Hard		Recommended Machining Data
	CW	RE	IC1028	IC1008	
GFT 0.8J-0.1	0.80	0.10	●	●	0.03-0.08
GFT 1.0J-0.1	1.00	0.10	●	●	0.03-0.10
GFT 1.2J-0.14	1.20	0.14	●	●	0.03-0.10
GFT 1.6J-0.16	1.60	0.16	●	●	0.03-0.12

Indexable Solid Carbide Gear Master



Indexable Solid Carbide Heads for Machining Involute Gear Profiles



Precise
Indexable
Head



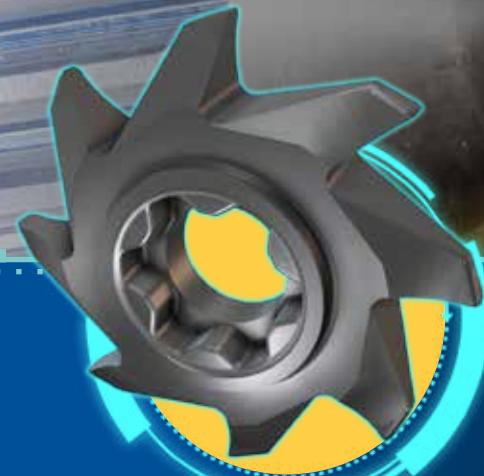
Strong Mechanism
of Torque Transfer to
the Head



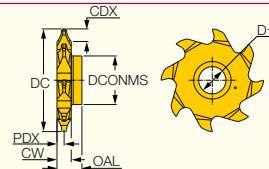
High
Productivity



Cost Effective
Insert



Solid Head with 8 Teeth



Designation	Module	T range ⁽¹⁾	Dimensions								IC908
			DC	PDX	CW	CDX	CEDC ⁽²⁾	DCONMS	D1	OAL	
SD D32-M1.00-NO1-SP15	1.00	12-13	32.00	2.2	4.40	2.50	8	15.00	8.40	7.70	•
SD D32-M1.00-NO2-SP15	1.00	14-16	32.00	2.2	4.40	2.50	8	15.00	8.40	7.70	•
SD D32-M1.25-NO3-SP15	1.25	17-20	32.00	2.2	4.40	3.00	8	15.00	8.40	7.70	•
SD D32-M1.25-NO4-SP15	1.25	21-25	32.00	2.2	4.40	3.00	8	15.00	8.40	7.70	•
SD D32-M1.50-NO5-SP15	1.50	26-34	32.00	2.2	4.40	3.50	8	15.00	8.40	7.70	•
SD D32-M1.50-NO6-SP15	1.50	35-54	32.00	2.2	4.40	3.50	8	15.00	8.40	7.70	•
SD D32-M1.75-NO7-SP15	1.75	55-134	32.00	2.7	5.40	4.25	8	15.00	8.40	7.70	•
SD D32-M1.75-NO8-SP15	1.75	>134	32.00	2.7	5.40	4.25	8	15.00	8.40	7.70	•
SD D32-M2.00-NO4-SP15	2.00	21-25	32.00	3.2	6.40	4.50	8	15.00	8.40	7.70	•
SD D32-M2.00-NO5-SP15	2.00	26-34	32.00	3.2	6.40	4.50	8	15.00	8.40	7.70	•

• Tightening torque 4 Nxm

(1) Gear teeth range

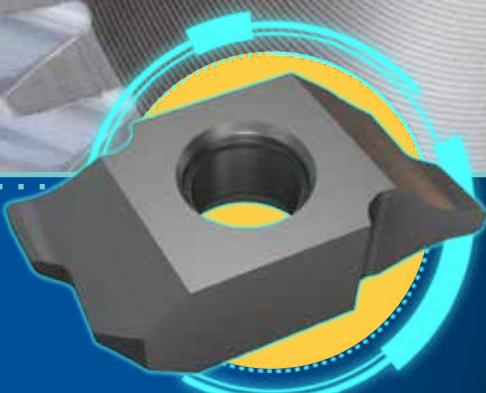
(2) Number of cutting edges



Indexable Gear Milling Profiling Master



Precise Inolute Profile
Insert for Gear Machining



Insert with 2 Cutting Edges



Tangential
Insert



High Pressure
Coolant



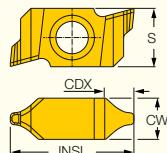
High
Productivity



Cost Effective
Insert

LNET 18-M

Indexable Inserts for Involute Gear Profile Milling According to DIN 3972 Basic Profile ||



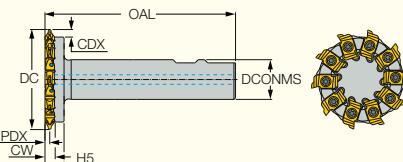
Designation	Dimensions						IC908
	Module	T range ⁽¹⁾	CW	CDX	INSL	S	
LNET 18-M1.50-N03-C-CL10	1.50	17-20	6.00	4.50	18.00	8.50	•

• Other gear profiles within module 1.0-1.75 mm range can be provided on request

⁽¹⁾ Gear teeth range

ETS Gear Mill

Tools for Milling Gear Profile Carrying Tangentially Clamped Inserts



Designation	DC	PDX	CDX	CW	CICT ⁽¹⁾	H5	DCONMS	OAL
ETS D63-M1-1.75-W25-C	63.00	3.0	4.50	6.00	10	12.00	25.00	120.00

• Other cutter diameters with alternative connection options (shank or arbor-type) can be provided on request

⁽¹⁾ Number of inserts

Spare Parts

Designation		
ETS Gear Mill	SR 14-500-L11.5	T-15/51-BE





Mini Slitting with Threaded Connection 16-22 mm Dia

Mini Master



Two Types of Head Connections
Multi-Master and FLEXFIT

10 X Magnified

**Small Diameter Slitting Cutter
with Unique Small
2 Cutting Edged Insert**



Ease of Use



High Pressure
Coolant



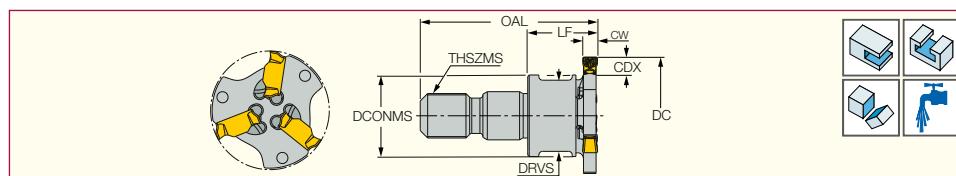
Cost
Effective

Small Insert with
2 Cutting Edges

LOGIQMILL
ISCAR CHESS LINES

**DGSM-M-JHP**

Grooving and Slitting Small Diameter Cutters with **FLEXFIT**
Threaded Adaptation



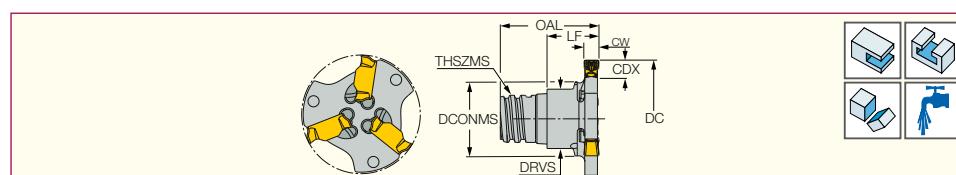
Designation	DC	CW	CDX	DCONMS	THSZMS	LF	OAL	DRV ⁽¹⁾
DGSM 16-2-M06-3Z-JHP	16.00	2.00	2.20	9.80	M06	12.00	29.50	8.0
DGSM 16-3-M06-3Z-JHP	16.00	3.00	2.20	9.80	M06	12.00	29.50	8.0
DGSM 18-2-M06-3Z-JHP	18.00	2.00	3.20	9.80	M06	12.00	29.50	8.0
DGSM 18-3-M06-3Z-JHP	18.00	3.00	3.20	9.80	M06	12.00	29.50	8.0
DGSM 22-2-M08-3Z-JHP	22.00	2.00	4.80	13.00	M08	12.00	29.50	9.6
DGSM 22-3-M08-3Z-JHP	22.00	3.00	4.80	13.00	M08	12.00	29.50	9.6

• For inserts: DGM-V

(1) Key flat size

**DGSM-MM-JHP**

Grooving and Slitting Small Diameter Cutters with **MULTI-MASTER** Threaded Adaptation



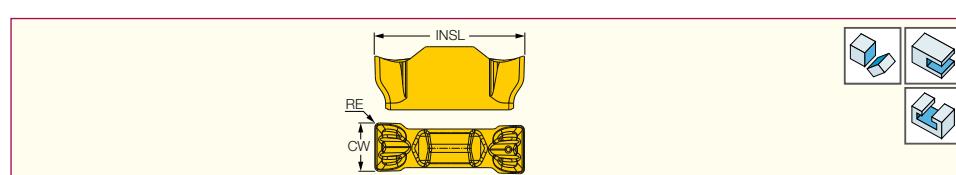
Designation	DC	CW	CDX	DCONMS	THSZMS	LF	OAL	DRV ⁽¹⁾
DGSM 16-2-M06-3Z-JHP	16.00	2.00	2.20	9.60	T06	9.15	15.80	8.0
DGSM 16-3-MMT06-3Z-JHP	16.00	3.00	2.20	9.60	T06	9.15	15.80	8.0
DGSM 18-2-MMT06-3Z-JHP	18.00	2.00	3.20	9.60	T06	9.15	15.80	8.0
DGSM 18-3-MMT06-3Z-JHP	18.00	3.00	3.20	9.60	T06	9.15	15.80	8.0
DGSM 22-2-MMT08-4Z-JHP	22.00	2.00	4.80	11.50	T08	9.15	21.80	10.0
DGSM 22-3-MMT08-4Z-JHP	22.00	3.00	4.80	11.50	T08	9.15	21.80	10.0

• For inserts: DGM-V

(1) Key flat size

**DGM-V**

Small Double-Sided Inserts with Ridged Positive Chipformer for Slitting and Grooving of Wide Range of Materials

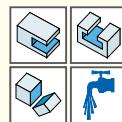
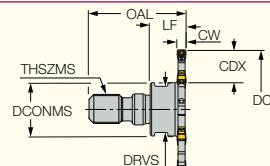


Designation	Dimensions			IC1008	Recommended Machining Data
	CW	RE	INSL		
DGM 2002V	2.00	0.20	6.20	•	f groove (mm/t) 0.03-0.10
DGM 3002V	3.00	0.20	6.20	•	0.04-0.15

SELFGRIP

SGSF/A-M-JHP

Grooving and Slitting Small Diameter Cutters with **FLEXFIT** Threaded Adaptation



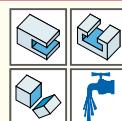
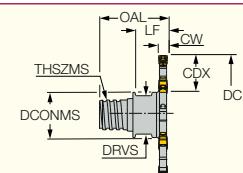
Designation	DC	CW	CDX	DCONMS	THSZMS	LF	OAL	DRVS ⁽¹⁾	Insert
SGSF 32-2-M08-3Z-JHP	32.00	2.00	7.80	13.00	M08	12.00	29.50	9.6	GSFN 2...
SGSA 32-3-M08-4Z-JHP	32.00	3.00	7.80	13.00	M08	12.00	29.50	9.6	GSAN 3...
SGSF 40-2-M10-4Z-JHP	40.00	2.00	11.80	18.00	M10	12.00	29.50	15.0	GSFN 2...
SGSA 40-3-M10-6Z-JHP	40.00	3.00	11.80	18.00	M10	12.00	29.50	15.0	GSAN 3...

⁽¹⁾ Key flat size

SELFGRIP

SGSF/A-MM-JHP

Grooving and Slitting Small Diameter Cutters with **MULTI-MASTER** Threaded Adaptation



Designation	DC	CW	CDX	DCONMS	THSZMS	LF	OAL	DRVS ⁽¹⁾	Insert
SGSF 32-2-MMT08-3Z-JHP	32.00	2.00	9.00	11.70	T08	10.60	18.10	10.0	GSFN 2...
SGSA 32-3-MMT08-4Z-JHP	32.00	3.00	9.00	11.70	T08	11.40	18.90	10.0	GSAN 3...
SGSF 40-2-MMT10-4Z-JHP	40.00	2.00	11.30	15.30	T10	10.60	21.90	13.0	GSFN 2...
SGSA 40-3-MMT10-6Z-JHP	40.00	3.00	11.30	15.30	T10	11.40	22.70	13.0	GSAN 3...

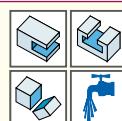
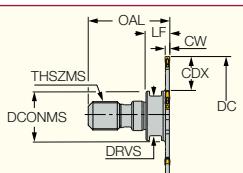
⁽¹⁾ Key flat size

For inserts: GSFN

TANGSLIT

TGSF-M-JHP

Grooving and Slitting Small Diameter Cutters with **FLEXFIT** Threaded Adaptation



Designation	DC	CW	CDX	DCONMS	THSZMS	LF	OAL	DRVS ⁽¹⁾
TGSF 50-2-M12 5Z-JHP	50.00	2.00	14.30	21.00	M12	12.00	34.00	17.0
TGSF 50-3-M12 4Z-JHP	50.00	3.00	14.30	21.00	M12	12.00	34.00	17.0

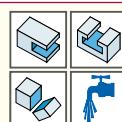
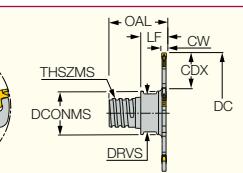
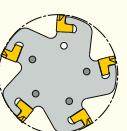
⁽¹⁾ Key flat size

For inserts: TAG N-A • TAG N-C/W/M • TAG N-J/JT • TAG N-MF

TANGSLIT

TGSF-MM-JHP

Grooving and Slitting Small Diameter Cutters with **MULTI-MASTER** Threaded Adaptation



Designation	DC	CW	CDX	DCONMS	THSZMS	LF	OAL	DRVS ⁽¹⁾
TGSF 50-2-MM 5Z JHP	50.00	2.00	15.30	19.00	T12	11.50	24.00	16.0
TGSF 50-3-MM 5Z JHP	50.00	3.00	15.30	19.00	T12	11.50	24.00	16.0

⁽¹⁾ Key flat size

For inserts: TAG N-A • TAG N-C/W/M • TAG N-J/JT • TAG N-MF

LOGIQHOLD

ISCAR CHESS LINES



High Productivity



For All
Materials



New Generation



Cost Effective

MACHINING IN DUSTRY 4.0 TELLIGENTLY

Jet Coolant Chuck Master



Thermal Shrink Chucks
with **Coolant Jet Channels**
along the Shank

Shrink Chuck **Through-Tool Coolant** Solution for Solid Carbide and HSS Tools



High Pressure
Coolant



Innovative



Effective Chip
Evacuation



Cost Effective
Prolonged Tool Life

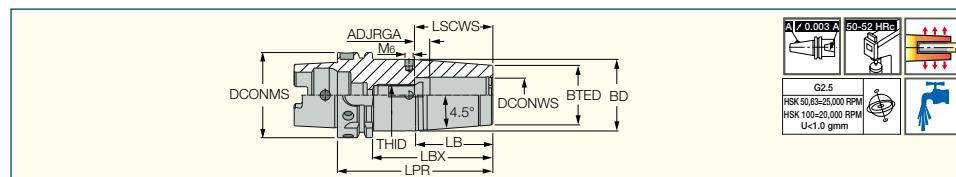
LOGIQHOLD
ISCAR CHESS LINES

X-STREAM

JET TOOLHOLDING

HSK A-SRKIN-CX

Thermal Shrink Chucks with HSK DIN69893 Form A Tapered Shank and Coolant Jet Channels along the Shank Bore



Designation	DCONMS	DCONWS	BTED	BD	LPR	LBX	LB	ADJRSA	LSCWS	THID	Key ⁽¹⁾	WT ⁽²⁾
HSK A63 SRKIN6X80 CX	63.00	6.00	21.00	27.00	80.00	54.00	38.10	9.50	34.0	M5	2.50	0.83
HSK A63 SRKIN6X120 CX	63.00	6.00	21.00	27.00	120.00	94.00	38.10	9.50	34.0	M5	2.50	1.00
HSK A63 SRKIN8X80 CX	63.00	8.00	21.00	27.00	80.00	54.00	38.10	9.50	34.0	M6	3.00	0.85
HSK A63 SRKIN8X120 CX	63.00	8.00	21.00	27.00	120.00	94.00	38.10	9.50	34.0	M6	3.00	1.05
HSK A63 SRKIN10X85 CX	63.00	10.00	24.00	32.00	85.00	59.00	50.80	9.30	39.8	M8	4.00	0.87
HSK A63 SRKIN10X120 CX	63.00	10.00	24.00	32.00	120.00	94.00	50.80	9.30	39.8	M8	4.00	1.07
HSK A63 SRKIN12X90 CX	63.00	12.00	24.00	32.00	90.00	64.00	50.80	9.30	44.8	M10	5.00	0.90
HSK A63 SRKIN12X120 CX	63.00	12.00	24.00	32.00	120.00	94.00	50.80	9.30	44.8	M10	5.00	1.15
HSK A63 SRKIN14X90 CX	63.00	14.00	27.00	34.00	90.00	64.00	44.50	9.30	44.8	M10	5.00	1.02
HSK A63 SRKIN16X75 CX	63.00	16.00	27.00	34.00	75.00	49.00	44.50	7.50	46.0	M5	2.50	0.82
HSK A63 SRKIN16X95 CX	63.00	16.00	27.00	34.00	95.00	69.00	44.50	9.30	47.8	M12	6.00	1.00
HSK A63 SRKIN16X120 CX	63.00	16.00	27.00	34.00	120.00	94.00	44.50	9.30	47.8	M12	6.00	1.20
HSK A63 SRKIN18X95 CX	63.00	18.00	33.00	42.00	95.00	69.00	57.20	9.30	47.8	M12	6.00	1.20
HSK A63 SRKIN20X75 CX	63.00	20.00	33.00	41.00	75.00	49.00	-	5.50	46.0	M5	2.50	0.92
HSK A63 SRKIN20X100 CX	63.00	20.00	33.00	42.00	100.00	74.00	57.20	8.50	49.0	M16	8.00	1.18
HSK A63 SRKIN20X120 CX	63.00	20.00	33.00	42.00	120.00	94.00	57.20	8.50	49.0	M16	8.00	1.38
HSK A63 SRKIN25X85 CX	63.00	25.00	44.00	52.20	85.00	59.00	52.10	9.50	56.0	M5	2.50	1.26
HSK A63 SRKIN32X85 CX	63.00	32.00	44.00	52.20	85.00	59.00	52.10	9.50	56.0	M5	2.50	1.11
HSK A100 SRKIN6X85 CX	100.00	6.00	21.00	27.00	85.00	56.00	38.10	9.50	34.0	M5	2.50	2.21
HSK A100 SRKIN8X85 CX	100.00	8.00	21.00	27.00	85.00	56.00	38.10	9.50	34.0	M6	3.00	2.21
HSK A100 SRKIN10X90 CX	100.00	10.00	24.00	32.00	90.00	61.00	50.80	9.30	39.8	M8	4.00	2.29
HSK A100 SRKIN12X95 CX	100.00	12.00	24.00	32.00	95.00	66.00	50.80	9.30	44.8	M10	5.00	2.30
HSK A100 SRKIN14X95 CX	100.00	14.00	27.00	34.00	95.00	66.00	44.50	9.30	44.8	M10	5.00	2.36
HSK A100 SRKIN16X100 CX	100.00	16.00	27.00	34.00	100.00	71.00	44.50	9.30	47.8	M12	6.00	2.37
HSK A100 SRKIN18X100 CX	100.00	18.00	33.00	42.00	100.00	71.00	57.20	9.30	47.8	M12	6.00	2.53
HSK A100 SRKIN20X105 CX	100.00	20.00	33.00	42.00	105.00	76.00	57.20	8.50	49.0	M16	8.00	2.57
HSK A100 SRKIN25X115 CX	100.00	25.00	44.00	53.00	115.00	86.00	57.20	9.50	56.0	M16	8.00	3.07
HSK A100 SRKIN32X120 CX	100.00	32.00	44.00	53.00	120.00	91.00	57.20	8.50	59.0	M16	8.00	2.98

• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately)

• Use only inductive heating device for SRKIN holders

(1) Adjustment screw hexagon key size

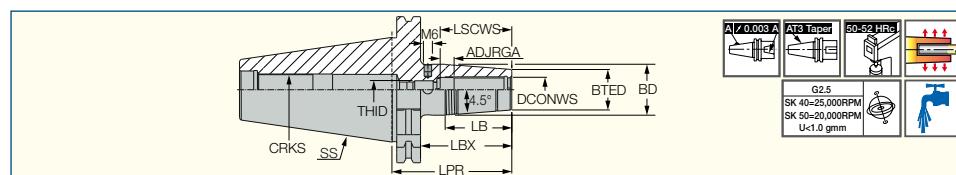
(2) Item weight

X-STREAM

JET TOOLHOLDING

DIN69871-SRKIN-CX

Thermal Shrink Chucks with DIN69871 Form AD Tapered Shank and Coolant Jet Channels along the Shank Bore



Designation	SS	DCONWS	BTED	BD	LPR	LBX	LB	LSCWS	ADJRSA	THID	Key ⁽¹⁾	CRKS	WT ⁽²⁾
DIN69871 40 SRKIN 6X80 CX	40	6.00	21.00	27.00	80.00	60.90	38.00	34.0	9.50	M5	2.50	M16	0.99
DIN69871 40 SRKIN 8X80 CX	40	8.00	21.00	27.00	80.00	60.90	38.00	34.0	9.50	M6	3.00	M16	1.00
DIN69871 40 SRKIN 10X80CX	40	10.00	24.00	32.00	80.00	60.90	51.00	39.8	9.30	M8	4.00	M16	1.05
DIN69871 40 SRKIN 12X80CX	40	12.00	24.00	32.00	80.00	60.90	51.00	44.8	9.30	M10	5.00	M16	1.05
DIN69871 40 SRKIN 14X80CX	40	14.00	27.00	34.00	80.00	60.90	45.00	44.8	9.30	M10	5.00	M16	1.15
DIN69871 40 SRKIN 16X80CX	40	16.00	27.00	34.00	80.00	60.90	45.00	47.8	9.30	M12	6.00	M16	1.07
DIN69871 40 SRKIN 18X80CX	40	18.00	33.00	42.00	80.00	60.90	57.00	47.8	9.30	M12	6.00	M16	1.21
DIN69871 40 SRKIN 20X80CX	40	20.00	33.00	42.00	80.00	60.90	57.00	49.0	8.50	M16	8.00	M16	1.16
DIN69871 40 SRKIN25X100CX	40	25.00	44.00	53.00	100.00	80.90	57.00	55.0	8.50	M16	8.00	M16	1.71
DIN69871 40 SRKIN32X100CX	40	32.00	44.00	53.00	100.00	80.90	57.00	59.0	8.50	M16	8.00	M16	1.60
DIN69871 50 SRKIN 6X80 CX	50	6.00	21.00	27.00	80.00	61.00	38.00	34.0	9.50	M5	2.50	M24	2.72
DIN69871 50 SRKIN 8X80 CX	50	8.00	21.00	27.00	80.00	60.90	38.00	34.0	9.50	M6	3.00	M24	2.71
DIN69871 50 SRKIN 10X80CX	50	10.00	24.00	32.00	80.00	60.90	51.00	39.8	9.30	M8	4.00	M24	2.81
DIN69871 50 SRKIN 12X80CX	50	12.00	24.00	32.00	80.00	60.90	51.00	44.8	9.30	M10	5.00	M24	2.79
DIN69871 50 SRKIN 14X80CX	50	14.00	27.00	34.00	80.00	60.90	45.00	44.8	9.30	M10	5.00	M24	2.84
DIN69871 50 SRKIN 16X80CX	50	16.00	27.00	34.00	80.00	60.90	45.00	47.8	9.30	M12	6.00	M24	2.76
DIN69871 50 SRKIN 18X80CX	50	18.00	33.00	42.00	80.00	60.90	57.00	47.8	9.30	M12	6.00	M24	2.90
DIN69871 50 SRKIN 20X80CX	50	20.00	33.00	42.00	80.00	60.90	57.00	49.0	8.50	M16	8.00	M24	2.92
DIN69871 50 SRKIN25X100CX	50	25.00	44.00	53.00	100.00	80.90	57.00	55.0	8.50	M16	8.00	M24	3.51
DIN69871 50 SRKIN32X100CX	50	32.00	44.00	53.00	100.00	80.90	57.00	59.0	8.50	M16	8.00	M24	3.36

• Use only inductive heating device for SRKIN holders

(1) Hex key size for the rear stopper screw

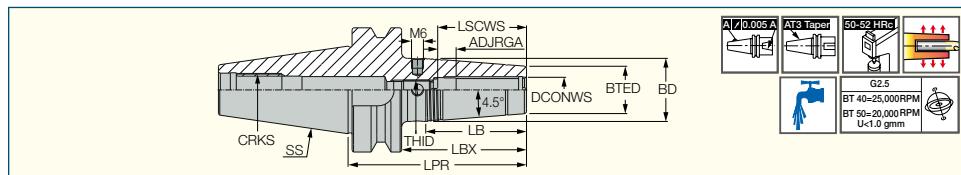
(2) Item weight

X-STREAM

JET TOOLHOLDING

BT-SRKIN-CX

Thermal Shrink Chucks with BT MAS-403
Form AD Tapered Shank and Coolant Jet
Channels along the Shank Bore



Designation	SS	DCONWS	BTED	BD	LPR	LBX	LB	LSCWS	ADJRSA	THID	Key	CRKS	WT ⁽¹⁾
BT40 SRKIN 6X90 CX	40	6.00	21.00	27.00	90.00	63.00	38.00	34.0	9.50	M5	2.50	M16	1.13
BT40 SRKIN 8X90 CX	40	8.00	21.00	27.00	90.00	63.00	38.00	34.0	9.50	M6	3.00	M16	1.07
BT40 SRKIN 10X90 CX	40	10.00	24.00	32.00	90.00	63.00	50.80	39.8	9.30	M8	4.00	M16	1.23
BT40 SRKIN 12X90 CX	40	12.00	24.00	32.00	90.00	63.00	50.80	44.8	9.30	M10	5.00	M16	1.13
BT40 SRKIN 14X90 CX	40	14.00	27.00	34.00	90.00	63.00	44.50	44.8	9.30	M10	5.00	M16	1.26
BT40 SRKIN 16X90 CX	40	16.00	27.00	34.00	90.00	63.00	44.50	47.8	9.30	M12	6.00	M16	1.23
BT40 SRKIN 18X90 CX	40	18.00	33.00	42.00	90.00	63.00	57.00	47.8	9.30	M12	6.00	M16	1.40
BT40 SRKIN 20X90 CX	40	20.00	33.00	42.00	90.00	63.00	57.00	49.0	8.50	M16	8.00	M16	1.30
BT40 SRKIN 25X110 CX	40	25.00	44.00	53.00	110.00	83.00	57.00	55.0	8.50	M16	8.00	M16	1.84
BT50 SRKIN 6X100 CX	50	6.00	21.00	26.00	100.00	62.00	32.00	34.0	9.50	M5	2.50	M24	3.67
BT50 SRKIN 8X100 CX	50	8.00	21.00	27.00	100.00	62.00	38.00	34.0	9.50	M6	3.00	M24	3.78
BT50 SRKIN 10X100 CX	50	10.00	24.00	32.00	100.00	62.00	50.80	39.8	9.30	M8	4.00	M24	3.78
BT50 SRKIN 12X100 CX	50	12.00	24.00	32.00	100.00	62.00	50.80	44.8	9.30	M10	5.00	M24	3.74
BT50 SRKIN 14X100 CX	50	14.00	27.00	34.00	100.00	62.00	44.50	44.8	9.30	M10	5.00	M24	3.80
BT50 SRKIN 16X100 CX	50	16.00	27.00	34.00	100.00	62.00	44.50	47.8	9.30	M12	6.00	M24	3.70
BT50 SRKIN 18X100 CX	50	18.00	33.00	42.00	100.00	62.00	57.00	47.8	9.30	M12	6.00	M24	3.92
BT50 SRKIN 20X100 CX	50	20.00	33.00	42.00	100.00	62.00	57.00	49.0	8.50	M16	8.00	M24	3.77
BT50 SRKIN 25X120 CX	50	25.00	44.00	53.00	120.00	82.00	57.00	55.0	8.50	M16	8.00	M24	4.50
BT50 SRKIN 32X120 CX	50	32.00	44.00	53.00	120.00	82.00	57.00	59.0	8.50	M16	8.00	M24	4.35

• Use only inductive heating device for SRKIN holders

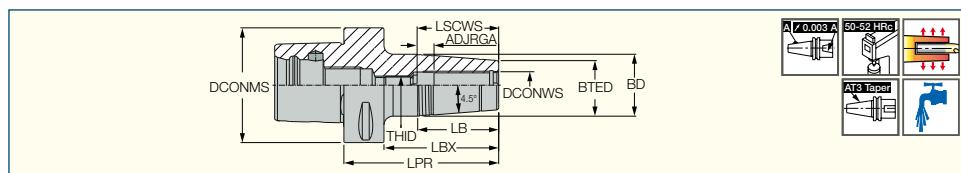
⁽¹⁾ Item weight

X-STREAM

JET TOOLHOLDING

C#-SRKIN-CX

Thermal Shrink Chucks with CAMFIX
(ISO 26623-1) Tapered Shank and
Coolant Jet Channels along
the Shank Bore



Designation	SS	DCONWS	BTED	BD	LPR	LBX	LB	LSCWS	ADJRSA	THID	Key	WT ⁽¹⁾
C6 SRKIN 6X80 CX	63	6.00	21.00	27.00	80.00	58.00	38.10	34.0	9.50	M5	2.50	0.95
C6 SRKIN 8X80 CX	63	8.00	21.00	27.00	80.00	58.00	38.10	34.0	9.50	M6	3.00	0.94
C6 SRKIN 10X80 CX	63	10.00	24.00	32.00	80.00	58.00	50.80	39.8	9.30	M8	4.00	1.07
C6 SRKIN 12X80 CX	63	12.00	24.00	32.00	80.00	58.00	50.80	44.8	9.30	M10	5.00	1.01
C6 SRKIN 14X85 CX	63	14.00	27.00	34.00	85.00	63.00	44.50	44.8	9.30	M10	5.00	1.08
C6 SRKIN 16X85 CX	63	16.00	27.00	34.00	85.00	63.00	44.50	47.8	9.30	M12	6.00	1.06
C6 SRKIN 18X85 CX	63	18.00	33.00	42.00	85.00	63.00	57.20	47.8	9.30	M12	6.00	1.21
C6 SRKIN 20X85 CX	63	20.00	33.00	42.00	85.00	63.00	57.20	49.0	8.50	M16	8.00	1.16
C6 SRKIN 25X90 CX	63	25.00	44.00	53.00	90.00	68.00	57.20	55.0	8.50	M16	8.00	1.50
C6 SRKIN 32X95 CX	63	32.00	44.00	53.00	95.00	73.00	57.20	59.0	8.50	M16	8.00	1.46

• Use only inductive heating device for SRKIN holders

⁽¹⁾ Item weight

LOGIQGRADES

ISCAR CHESS LINES



High Productivity



All
Materials



New Generation



Cost Effective



MACHINING **IN** DUSTRY 4.0 TELLIGENTLY

Turning Grades



A hard submicron substrate. TiAlN PVD coated grade followed by a special “SUMO TEC” surface treatment. Suitable for turning hard nickel base alloys / Inconel (40-50 HRC) at low to medium cutting speeds.



A tough submicron substrate, TiAlN PVD coated grade followed by a special “SUMO TEC” surface treatment. Suitable for turning nickel-based high temperature alloys at low to medium cutting speeds.



A tough submicron substrate, improved TiAlN PVD coated grade for better chip flow. Suitable for turning heat resistant alloys, austenitic stainless steel and hard steel at low to medium cutting speeds.



A very hard substrate with a cobalt enriched outer layer and alpha Al₂O₃ coating. Used for finishing and medium turning of stainless steel at high cutting speeds. Features long tool life and excellent repeatability.



A tough substrate with MTCVD Al₂O₃ and TiCN coating. Recommended for machining stainless steel at high feeds and unfavorable conditions at medium cutting speed.



A tough substrate with a cobalt enriched layer combined with improved MTCVD TiCN and a thick alpha Al₂O₃ CVD coating. Recommended for general use machining of steel in a wide range of conditions, featuring high toughness and resistance to chipping and plastic deformation.

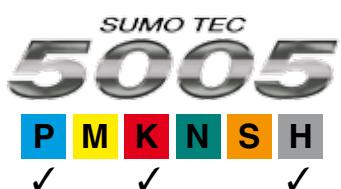
Turning Grades



A very hard substrate with a cobalt enriched layer, improved MTCVD TiCN and a thick alpha Al₂O₃ CVD coating. Features excellent thermal stability, resistance to chipping and plastic deformation. Recommended for high speed machining of steel at stable or slightly unstable conditions.



A very tough substrate with a cobalt enriched layer combined with an improved MTCVD TiCN and alpha Al₂O₃ CVD coating. Provides excellent toughness and chipping resistance on steel for interrupted and unstable cutting conditions.



A hard substrate, MTCVD TiCN and thick Al₂O₃ coated grade with post coating surface treatment. Mainly used for turning nodular cast iron (may be used for other cast iron as well) at medium to high cutting speeds at stable or slightly unstable conditions. Can be used when higher wear resistance than that provided by IC5010 or other grades is required.



A hard substrate, improved MTCVD TiCN and a thick alpha Al₂O₃ CVD coating. Features excellent thermal stability and improved toughness. Recommended mainly for grey cast iron at stable or slightly unstable conditions. Can also be used successfully on nodular cast iron.

Drilling Grades



Diamond coated grade for drilling CFRP (Carbon Fiber Reinforced Plastic) and titanium CFRP laminates.

Milling Grades



P M K N S H
✓ ✓

A TiAlN PVD coated grade. First choice for milling nodular cast iron at medium to high cutting speeds.



P M K N S H
✓

A tough substrate with a MTCVD and TiCN/Al₂O₃ coating. Recommended for milling grey cast iron at high cutting speeds, providing extended tool life.



P M K N S H
✓ ✓

A tough submicron substrate, TiCN PVD coated and with a special surface treatment. Designed for machining heat resistant alloys, hardened steels and cast iron at medium to high cutting speeds, interrupted cut and unfavorable conditions. Excellent notch wear and built-up edge resistance. High resistance to mechanical and thermal shock – therefore milling with coolant may be applied.



P M K N S H
✓

A tough substrate with a MTCVD and alpha Al₂O₃ coating. Recommended for milling steel at high cutting speed, providing excellent tool life.



P M K N S H
✓ ✓

A PVD TiSiN coated tough grade followed by a special surface treatment. Suitable for milling austenitic stainless steel and high temperature alloys. Recommended for interrupted cuts and heavy operations.



P M K N S H
✓

A PVD AlTiN coated tough grade followed by a special "SUMO TEC" surface treatment. Suitable for milling alloyed steel. Recommended for interrupted cut and heavy operations.



P M K N S H
✓ ✓

A tough substrate, TiAlN PVD coated and a special surface treatment. Designed for machining austenitic stainless steel, titanium and high temperature alloys.

Milling Grades



A tough TiCN+TiN thin PVD coated grade with a special "SUMO TEC" surface treatment. Used for milling a wide range of workpiece materials, at low to medium cutting speeds and for unstable machining conditions.



A tough substrate, with a MTCVD and alpha Al₂O₃ coating and a special surface treatment. Designed for machining austenitic stainless steel, titanium and high temperature alloys.

Turning, Milling and Drilling Grades



A tough submicron substrate, improved TiAlN PVD coated grade for better chip flow. Designed for machining heat resistant alloys, austenitic stainless steel, hard alloys and carbon steel at medium to high cutting speeds, interrupted cut and unfavorable conditions.

Excellent notch wear and built-up edge resistance.



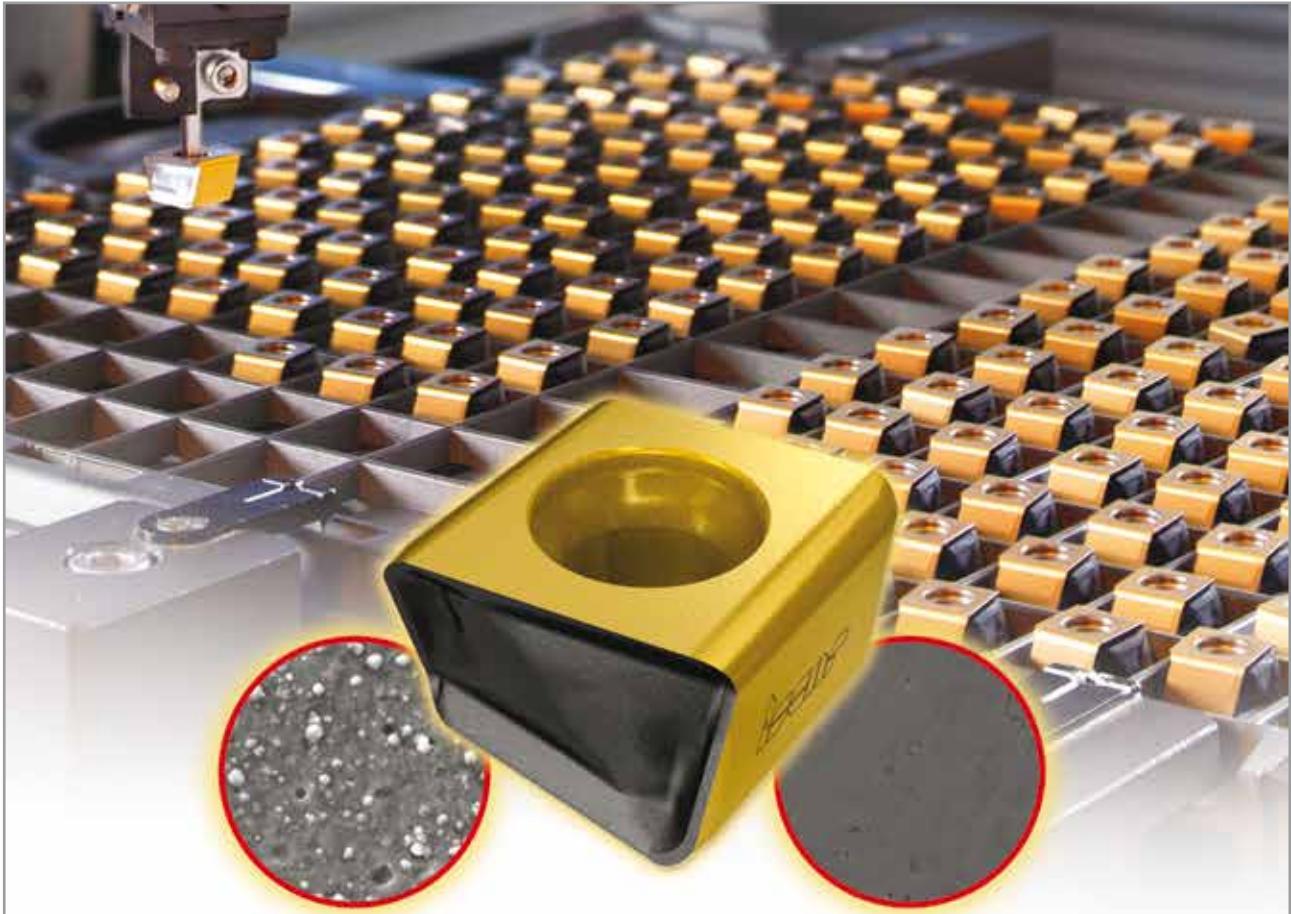
An improved TiAlN PVD coated tough grade for better chip flow. Suitable for machining stainless steel, high temperature alloys and other alloy steels. Recommended for interrupted cut and heavy operations.



A tough submicron substrate, TiAlN PVD coated grade. Designed for machining heat resistant alloys, austenitic stainless steel, hard alloys and carbon steel at medium to high cutting speeds, interrupted cut and unfavorable conditions. Excellent notch wear and built-up edge resistance.



A tough substrate with a MTCVD and alpha Al₂O₃ coating. Recommended for machining martensitic stainless steel at high cutting speed providing excellent tool life.



Standard Grade

SUMO TEC Grade

The SUMO TEC grades feature a special post-coating treatment which improves toughness and chipping resistance while reducing friction and built-up edge. The new process provides higher reliability and improves tool life substantially.



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