MAXOUT

MINIMUM COST
MAXIMUM OUTPUT

MAY 2026
METRIC VERSION


LOGIQ-4-TURN

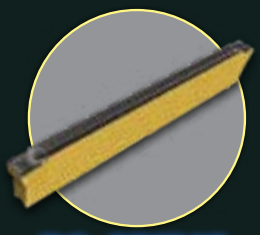

HELI-DO


ISO-TURN

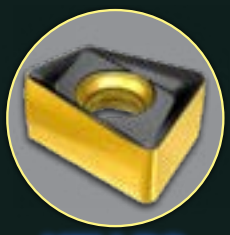

TANG-GRIP


HELI-TANG


LOGIQ-6-TURN


DO-GRIP XL


MICRO-3-FEED


HELI-DO


HELI-3-MILL


SLIM-GRIP


SUMO-CHAM


MULTI-MASTER


QUICK-D-MILL


PENTA-CUT

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ISCAR

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MILLING 67

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HOLEMAKING 93

Member IMC Group

MAXVALUE

MINIMUM COST MAXIMUM OUTPUT





The 80° design features double-sided, 4-edge CXMU inserts that replace 2-edge CCMT inserts. A dovetail pocket **enhances stability, extends tool life, and reduces cost per part on Swiss-Type and compact lathes.**



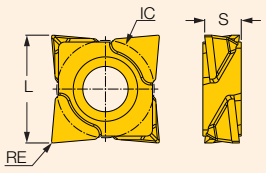
LOGIQ4TURN

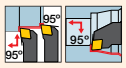
CXMU-F3M

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

MAXVALUE MINIMUM COST MAXIMUM OUTPUT







Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC6025	IC1008	IC6015	IC806	IC807	IC706	Recommended Machining Data a_p (mm)	f (mm/rev)
CXMU 060202-F3M	7.00	6.34	2.38	0.20	●	●	●	●	●	●	0.30-2.00	0.050-0.250
CXMU 060204-F3M	6.96	6.34	2.38	0.40	●	●	●	●	●	●	0.50-2.00	0.050-0.250
CXMU 060208-F3M	6.88	6.34	2.38	0.80	●	●	●	●	●	●	0.80-2.00	0.070-0.250

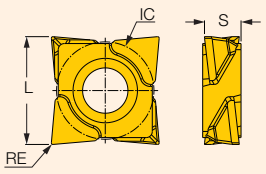
LOGIQ4TURN

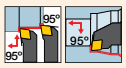
CXMU-F3P

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

MAXVALUE MINIMUM COST MAXIMUM OUTPUT







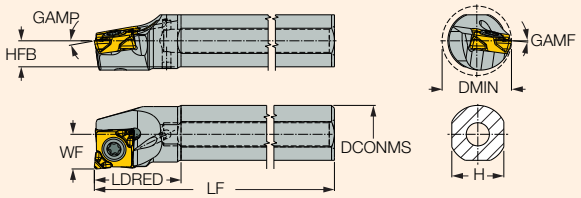
Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC8250	IC1008	IC8150	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
CXMU 060202-F3P	7.00	6.34	2.38	0.20	●	●	●	●	0.30-2.00	0.050-0.250
CXMU 060204-F3P	6.96	6.34	2.38	0.40	●	●	●	●	0.50-2.00	0.050-0.250
CXMU 060208-F3P	6.88	6.34	2.38	0.80	●	●	●	●	0.80-2.00	0.070-0.250

LOGIQ4TURN

A/E-SCLXR/L-06X

Screw Lock Boring Bars on which CXMU 80° Rhombic Inserts are Mounted

MAXVALUE MINIMUM COST MAXIMUM OUTPUT





Designation	DCONMS	LF	LDRED	H	HFB	WF	DMIN	GAMP(1)	GAMF(2)	MIID(3)
A08H SCLXR/L-06X	8.00	100.00	12.0	7.2	3.6	5.00	10.00	8.0	10.0	CXMU 060208
E08K SCLXR/L-06X	8.00	125.00	19.0	7.2	3.6	5.00	10.00	8.0	10.0	CXMU 060208
A10K SCLXR/L-06X	10.00	125.00	15.0	9.0	4.5	6.00	12.00	8.0	8.0	CXMU 060208
E10M SCLXR/L-06X	10.00	150.00	21.5	9.0	4.5	6.00	12.00	8.0	8.0	CXMU 060208
A12M SCLXR/L-06X	12.00	150.00	18.0	11.0	5.5	9.00	16.00	8.0	8.0	CXMU 060208
E12Q SCLXR/L-06X	12.00	180.00	25.0	11.0	5.5	9.00	16.00	8.0	8.0	CXMU 060208

- A - steel shank with coolant hole, E - carbide shank with coolant hole

(1) Rake angle axial

(2) Rake angle radial

(3) Master insert identification

Spare Parts

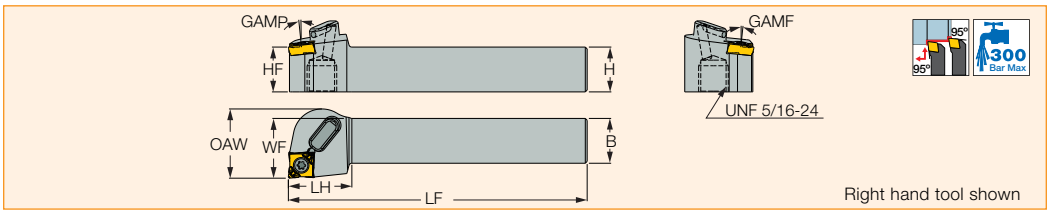
Designation		
A/E-SCLXR/L-06X	SR M2.5-T8-MT	T-8/5

LOGIQ4TURN

SCLXR/L 06X-JHP

Screw Lock Tools with Channel for High-Pressure Coolant Carrying CXMU 80° Rhombic Inserts

MAXVALUE MINIMUM COST MAXIMUM OUTPUT



Designation	B	H	HF	LF	LH	WF	OAW	GAMP(1)	GAMF(2)	MIID(3)
SCLXR/L 1010F-06X-JHP	10.0	10.0	10.00	80.00	17.0	12.00	18.50	6.0	6.0	CXMU 060208
SCLXR/L 1212F-06X-JHP	12.0	12.0	12.00	80.00	17.0	16.00	18.50	6.0	6.0	CXMU 060208
SCLXR/L 1616H-06X-JHP	16.0	16.0	16.00	100.00	17.0	20.00	20.00	6.0	6.0	CXMU 060208

(1) Rake angle axial
(2) Rake angle radial
(3) Master insert identification

Spare Parts

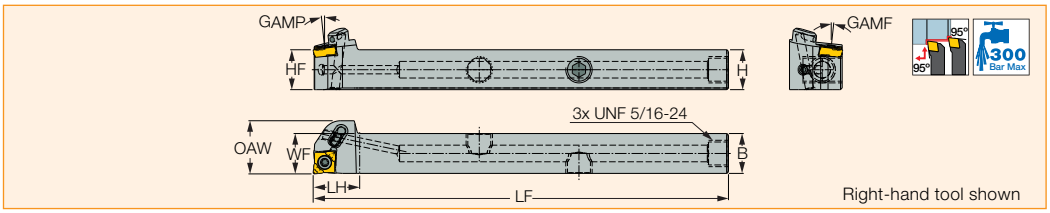
Designation		
SCLXR/L 06X-JHP	SR M2.5-T8-MT	T-8/5

LOGIQ4TURN

SCLXR/L 06XS-JHP-MC

Screw Lock Tools with JET-CUT Coolant System Carrying CXMU 80° Rhombic Inserts for Swiss-Type Automatic Lathes

MAXVALUE MINIMUM COST MAXIMUM OUTPUT



Designation	B	H	HF	LF	LH	WF	OAW	GAMP(1)	GAMF(2)	MIID(3)
SCLXR/L 1010K-06XS-JHP-MC	10.0	10.0	10.00	125.00	14.0	10.15	16.00	6.0	6.0	CXMU 060208
SCLXR/L 1212K-06XS-JHP-MC	12.0	12.0	12.00	125.00	14.0	12.15	16.00	6.0	6.0	CXMU 060208
SCLXR/L 1616K-06XS-JHP-MC	16.0	16.0	16.00	125.00	14.0	16.15	16.15	6.0	6.0	CXMU 060208

(1) Rake angle axial
(2) Rake angle radial
(3) Master insert identification

Spare Parts

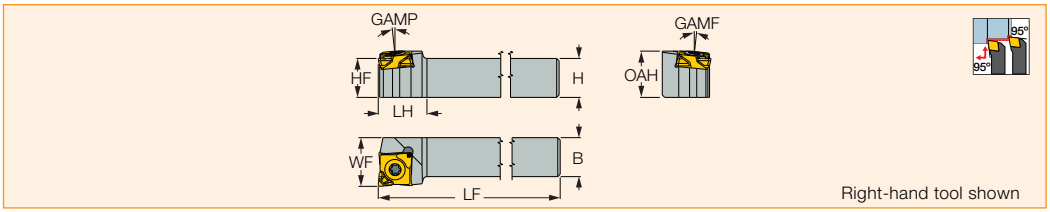
Designation				
SCLXR/L 06XS-JHP-MC	SR M2.5-T8-MT	T-8/5	SR 5/16UNF TL360	SR M3X3 DIN913 TL360

LOGIQ4TURN

SCLXR/L 06X

Screw Lock Carrying CXMU 80° Rhombic Inserts

MAXVALUE MINIMUM COST MAXIMUM OUTPUT



Designation	B	H	HF	LF	LH	WF	OAH	GAMP(1)	GAMF(2)	MIID(3)
SCLXR/L 0808F-06X	8.0	8.0	8.00	80.00	10.0	10.00	9.50	6.0	6.0	CXMU 060204

(1) Rake angle axial
(2) Rake angle radial
(3) Master insert identification

Spare Parts

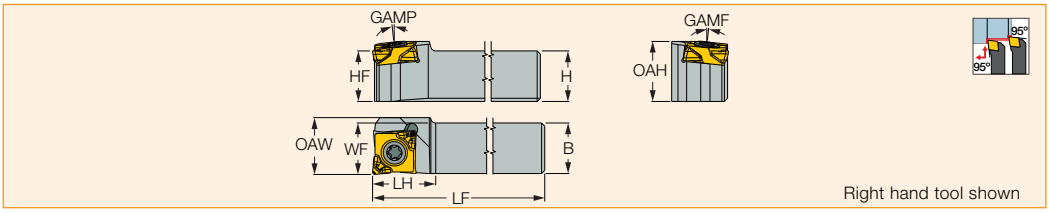
Designation		
SCLXR/L 06X	SR M2.5-T8-MT	T-8/5

LOGIQ4TURN

SCLXR/L 06XS

Screw Lock Carrying CXMU 80° Rhombic Inserts for Swiss-Type Automatic Lathes

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT



Designation	B	H	HF	LF	LH	WF	OAW	OAH	GAMP(1)	GAMF(2)	MIID(3)
SCLXR/L 0808K-06XS	8.0	8.0	8.00	125.00	10.0	8.15	9.00	9.50	6.0	6.0	CXMU 060204

(1) Rake angle axial
(2) Rake angle radial
(3) Master insert identification

Spare Parts

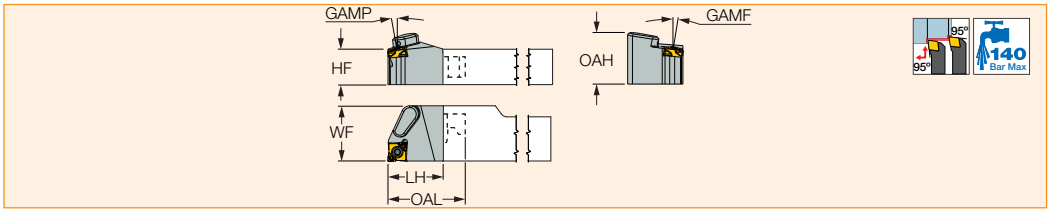
Designation		
SCLXR/L 06XS	SR M2.5-T8-MT	T-8/5

LOGIQ4TURN

NQCH-SCLXR/L-JHP

Screw Lock JET-CUT Modular Heads Carrying Positive Double-Sided 80° Rhombic Inserts for Swiss-Type Machines

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT



Designation	WF	HF	LH	OAL	OAH	GAMP(1)	GAMF(2)	MIID(3)
NQCH10-SCLXR/L-06X-JHP	10.20	10.00	20.0	28.80	14.20	6.0	6.0	CXMU 060208
NQCH12-SCLXR/L-06X-JHP	12.20	12.00	20.0	28.80	18.60	6.0	6.0	CXMU 060208

(1) Rake angle axial
(2) Rake angle radial
(3) Master insert identification

Spare Parts

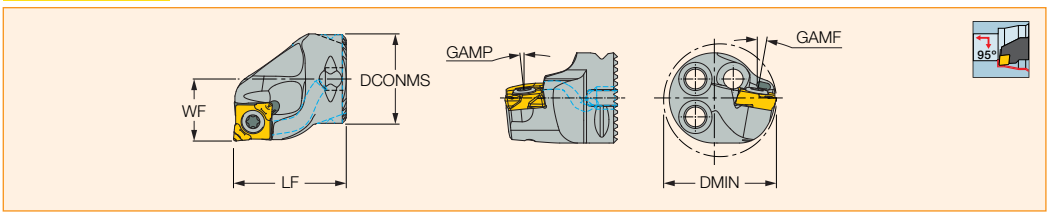
Designation		
NQCH-SCLXR/L-JHP	SR M2.5-T8-MT	T-8/5

LOGIQ4TURN

AVC-SCLXR/L-06X

Screw Lock Tools Carrying CXMU 80° Rhombic Inserts

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT



Designation	WF	DCONMS	DMIN	LF	CSP(1)	GAMP(2)	GAMF(3)	MIID(4)
AVC-D16-SCLXR/L-06X	11.00	16.00	20.00	20.00	1	6.0	10.0	CXMU 060204

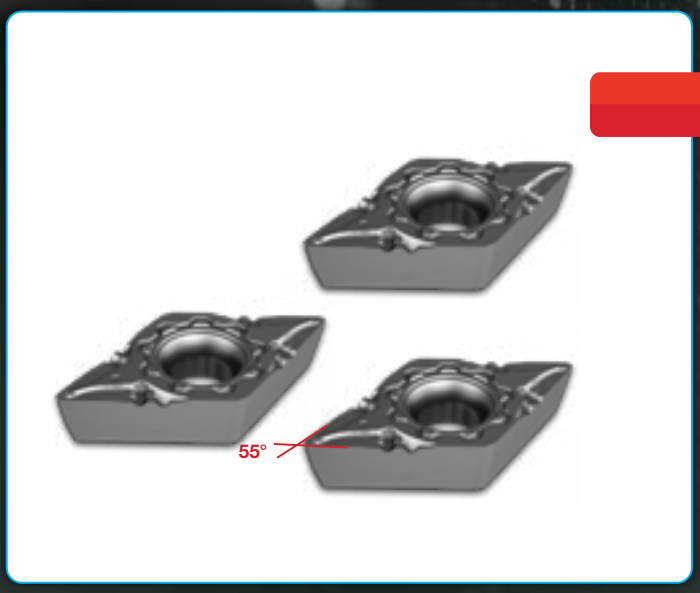
(1) 0 - Without coolant supply, 1 - With coolant supply
(2) Rake angle axial
(3) Rake angle radial
(4) Master insert identification

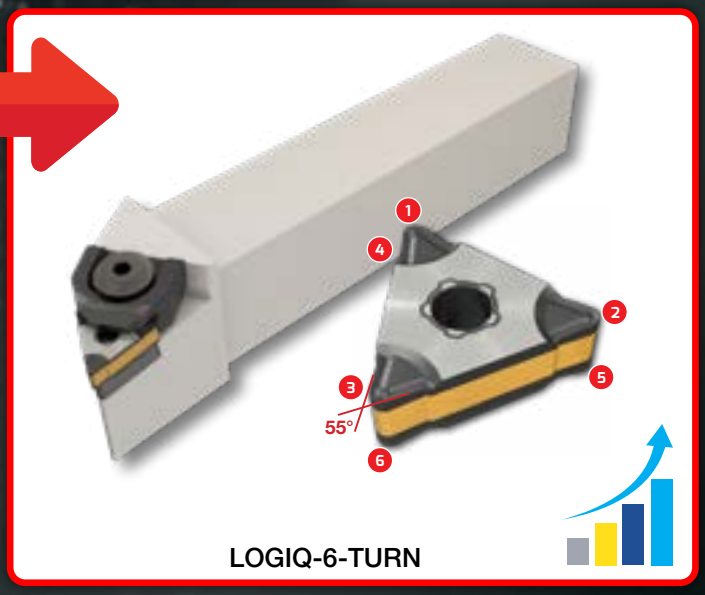
Spare Parts

Designation		
AVC-SCLXR/L-06X	SR M2.5-T8-MT	T-8/5

MAXVALUE

MINIMUM COST MAXIMUM OUTPUT





LOGIQ-6-TURN

A unique six-edged positive insert offering **a cost-effective alternative** to ISO DCMT/TCMT for semi-finishing and finishing turning, **delivering more cutting edges and a lower cost per part.**



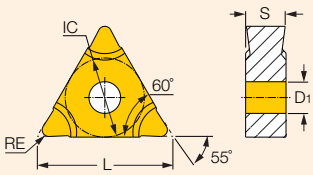
LOGIQ6TURN FINISH

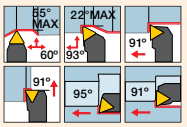
MAXVALUE MINIMUM COST MAXIMUM OUTPUT

D6NMG/D6NGG-F3P

Double-Sided Triangular Inserts with 55° Corner Angle and a Positive Rake Angle, for Finishing ISO-P Materials







Designation	Dimensions L	IC	S	RE	D1	Tough ↔ Hard IC830	IC8250	IC8150	IC520N	IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
D6NMG 160404-F3P	16.47	9.52	4.76	0.40	3.81	●	●	●	●	●		0.50-2.50	0.050-0.250
D6NMG 160408-F3P	16.47	9.52	4.76	0.80	3.81	●	●	●	●	●		0.80-2.50	0.070-0.250
D6NGG 160402-F3P	16.47	9.52	4.76	0.2	3.81						●	0.30-2.50	0.050-0.250
D6NGG 160404-F3P	16.47	9.52	4.76	0.4	3.81						●	0.50-2.50	0.050-0.250

- The LOGIQ-6-TURN inserts fit standard holders also suitable for TNMG inserts

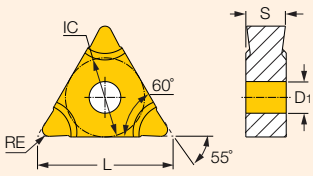
LOGIQ6TURN FINISH

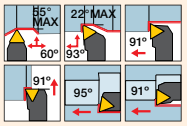
MAXVALUE MINIMUM COST MAXIMUM OUTPUT

D6NMG-M3P

Double-Sided Triangular Inserts with 55° Corner Angle and a Positive Rake Angle, for Semi-Finishing and Finishing ISO-P







Designation	Dimensions L	IC	S	RE	D1	Tough ↔ Hard IC830	IC8250	IC8150	IC5010	IC5005	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
D6NMG 160404-M3P	16.47	9.52	4.76	0.40	3.81	●	●	●	●	●	●	0.50-2.50	0.050-0.250
D6NMG 160408-M3P	16.47	9.52	4.76	0.80	3.81	●	●	●	●	●	●	0.80-2.50	0.070-0.250
D6NMG 160412-M3P	16.47	9.52	4.76	1.20	3.81	●	●	●			●	1.00-2.50	0.080-0.250

- The LOGIQ-6-TURN inserts fit standard holders also suitable for TNMG inserts

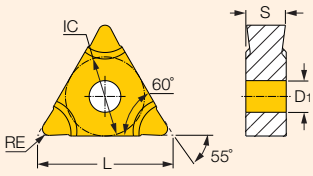
LOGIQ6TURN FINISH

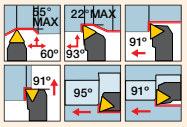
MAXVALUE MINIMUM COST MAXIMUM OUTPUT

D6NMG-M3M

Double-Sided Triangular Inserts with 55° Corner Angle and a Positive Rake Angle, for Semi-Finishing and Finishing ISO-M







Designation	Dimensions L	IC	S	RE	D1	Tough ↔ Hard IC830	IC6025	IC6015	IC806	IC1017	IC807	IC706	Recommended Machining Data a_p (mm)	f (mm/rev)
D6NMG 160404-M3M	16.47	9.52	4.76	0.40	3.81	●	●	●	●	●	●	●	0.50-2.50	0.050-0.250
D6NMG 160408-M3M	16.47	9.52	4.76	0.80	3.81	●	●	●	●	●	●	●	0.80-2.50	0.070-0.250
D6NMG 160412-M3M	16.47	9.52	4.76	1.20	3.81		●	●					1.00-2.50	0.080-0.250

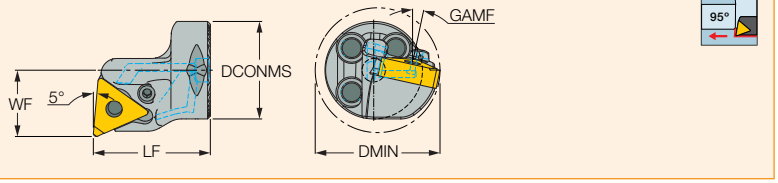
- The LOGIQ-6-TURN inserts fit standard holders also suitable for TNMG inserts

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

WHISPERLINE

AVC-PTLNR/L

Interchangeable Boring Heads Carrying 60° Triangular Inserts



Designation	WF	DCONMS	DMIN	GAMF(1)	LF	CSP(2)	MIID(3)
AVC-D25-PTLNR/L-16	17.00	25.00	32.00	-12.0	30.00	1	TNMG 160408
AVC-D32-PTLNR/L-16	22.00	32.00	40.00	-12.0	30.00	1	TNMG 160408
AVC-D40-PTLNR/L-16	27.00	40.00	50.00	-10.0	35.00	1	TNMG 160408

(1) Rake angle radial
(2) 0 - Without coolant supply, 1 - With coolant supply
(3) Master insert identification

Spare Parts

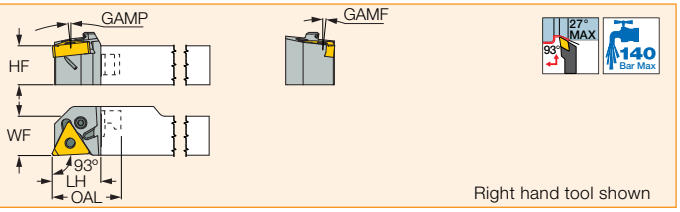
Designation							
AVC-D25-PTLNR/L-16	SR 117-2009	HW 2.0	FT39 D6-5X8	LR 3S			
AVC-D32-PTLNR/L-16	SR 117-2014	HW 2.5	FT39 D6-5X8	LR 3	TTN 322	PN 3-4	SP 3
AVC-D40-PTLNR/L-16	SR 117-2014	HW 2.5	FT39 D6-5X8	LR 3	TTN 322	PN 3-4	SP 3

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

NEOSWISS

NQCH-PTJNR/L-S-JHP

Lever Lock JET-CUT Modular Heads Carrying Negative Double-Sided Triangular Inserts for Swiss-Type Machines



Designation	HF	WF	LH	OAL	GAMP(1)	GAMF(2)	MIID(3)
NQCH16-PTJNR/L-16S-JHP	16.00	16.15	20.0	28.80	6.0	6.0	TNM..1604..

- Use only RH Shank with RH Head and LH Shank with LH Head exept NQCH12R/16R... heads.

(1) Rake angle axial
(2) Rake angle radial
(3) Master insert identification

Spare Parts

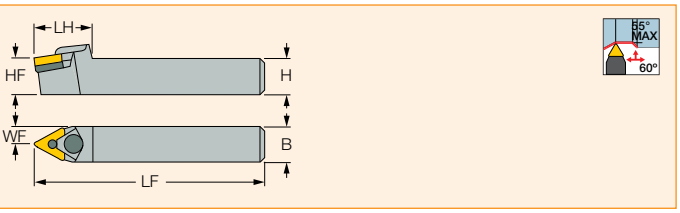
Designation			
NQCH-PTJNR/L-S-JHP	SR 117-2009	LR 3S	HW 2.0

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

ISOTURN

MTENN-W

Neutral Wedge Lock Turning Tools Carrying Negative Triangular Inserts



Designation	H	HF	B	LF	LH	WF	MIID(1)
MTENN 1618H-16W-M	16.0	16.0	18.0	100.00	32.0	9.00	TNMG 1604
MTENN 2020K-16W-M	20.0	20.0	20.0	125.00	35.0	10.00	TNMG 1604
MTENN 2525M-16W-M	25.0	25.0	25.0	150.00	32.0	12.50	TNMG 1604

(1) Master insert identification

Spare Parts

Designation							
MTENN 1618H-16 W-M	TTT 322N	TTT 332N*	ZNW 3WNS	LC 291N CLAMP	E RING N	SR 17-317NS	HW 3.0
MTENN 2020K-16W-M	TTT 322N	TTT 332N*	ZNW 3WN	LC 291N CLAMP	E RING N	SR 17-317N	HW 3.0
MTENN 2525M-16W-M	TTT 322N	TTT 332N*	ZNW 3WN	LC 291N CLAMP	E RING N	SR 17-317N	HW 3.0

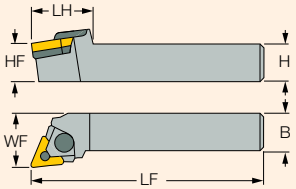
* Optional, to be ordered separately

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

ISOTURN

MTJNR/L-W

93° Entering Angle Wedge Lock Turning Tools Carrying Negative Triangular Inserts





Right hand tool shown

Designation	H	HF	B	LF	LH	WF	MIID[1]
MTJNR/L 1616H-16W-M	16.0	16.00	16.0	100.00	32.0	20.00	TNMG 1604
MTJNR/L 2020K-16W-M	20.0	20.00	20.0	125.00	32.0	25.00	TNMG 1604
MTJNR/L 2525M-16W-M	25.0	25.00	25.0	150.00	32.0	32.00	TNMG 1604

(1) Master insert identification

Spare Parts

Designation								
MTJNR/L 1616H-16W-M	TTT 322N	TTT 332N*	ZNW 3WNS		LC 291N CLAMP	E RING N	SR 17-317NS	HW 3.0
MTJNR/L 2020K-16W-M	TTT 322N	TTT 332N*	ZNW 3WN	HW 2.5	LC 291N CLAMP	E RING N	SR 17-317N	HW 3.0
MTJNR/L 2525M-16W-M	TTT 322N	TTT 332N*	ZNW 3WN		LC 291N CLAMP	E RING N	SR 17-317N	HW 3.0

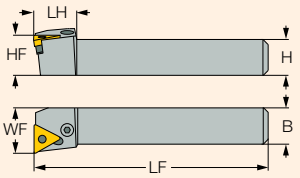
* Optional, to be ordered separately

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

ISOTURN

PTFNR/L

91° Entering Angle Lever Lock Face Turning Tools Carrying Negative Triangular Inserts





Right-hand shown

Designation	H	HF	B	LF	LH	WF	MIID[1]
PTFNR/L 2020K-16	20.0	20.0	20.0	125.00	20.0	25.00	TNMG 16..
PTFNR/L 2525M-16	25.0	25.0	25.0	150.00	20.0	32.00	TNMG 16..

(1) Master insert identification

Spare Parts

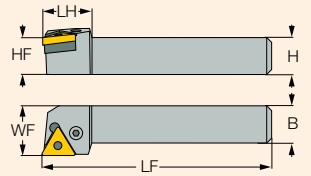
Designation							
PTFNR/L 2020K-16	TTN 322	TTN 332*	LR 3	SR 117-2014	HW 2.5/5	SP 3	PN 3-4
PTFNR/L 2525M-16	TTN 322	TTN 332*	LR 3	SR 117-2014	HW 2.5/5	SP 3	PN 3-4

* Optional, to be ordered separately

ISOTURN

PTGNR/L

91° Entering Angle Lever Lock External Turning Tools Carrying Negative Triangular Inserts





Right-hand shown

Designation	H	HF	B	LF	LH	WF	MIID[1]
PTGNR/L 2020K-16	20.0	20.0	20.0	125.00	22.0	25.00	TNMG 16..
PTGNR/L 2525M-16	25.0	25.0	25.0	150.00	22.0	32.00	TNMG 16..

(1) Master insert identification

Spare Parts

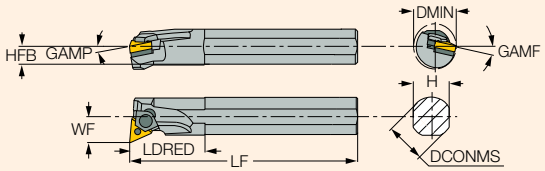
Designation							
PTGNR/L 2020K-16	TTN 322	TTN 332*	SP 3	LR 3	SR 117-2014	HW 2.5/5	PN 3-4
PTGNR/L 2525M-16	TTN 322	TTN 332*	SP 3	LR 3	SR 117-2014	HW 2.5/5	PN 3-4

* Optional, to be ordered separately

ISOTURN

S-MTLNR/L-W

95° Entering Angle Wedge Lock Boring Bars Carrying Negative Triangular Inserts





Right-hand shown

Designation	DCONMS	LF	LDRED	H	HFB	WF	GAMP[1]	GAMF[2]	DMIN	MIID[3]
S25S MTLNR/L-16W-M	25.00	250.00	40.0	23.0	11.5	17.00	-6.0	-12.0	32.00	TNMG 1604
S32T MTLNR/L-16W-M	32.00	300.00	50.0	30.0	15.0	22.00	-6.0	-12.0	40.00	TNMG 1604

(1) Rake angle axial
(2) Rake angle radial
(3) Master insert identification

Spare Parts

Designation							
S25S MTLNR/L-16W-M			ZNW 3WNS	SR 17-317NS	LC 291N CLAMP	HW 3.0	E RING N
S32T MTLNR/L-16W-M	TTT 322N	TTT 332N*	ZNW 3WN	SR 17-317N	LC 291N CLAMP	HW 3.0	E RING N

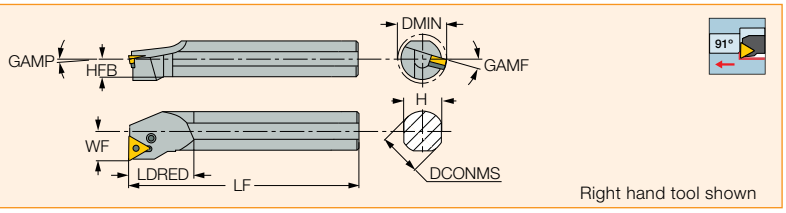
* Optional, to be ordered separately

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

ISOTURN

S-PTFNR/L

91° Entering Angle Lever Lock Boring Bars Carrying Negative Triangular Inserts



Right hand tool shown

Designation	DCONMS	LF	LDRED	H	HFB	WF	GAMP(1)	GAMF(2)	DMIN	MIID(3)
S25S PTFNR/L-16	25.00	250.00	48.0	23.0	11.5	17.00	-6.0	-13.0	32.50	TNMG 1604
S32T PTFNR/L-16	32.00	300.00	63.0	30.0	15.0	22.00	-6.0	-10.0	40.00	TNMG 1604
S40U PTFNR-16	40.00	350.00	30.0	36.0	18.0	27.00	-6.0	-10.0	49.00	TNMG 1604

(1) Rake angle axial
(2) Rake angle radial
(3) Master insert identification

Spare Parts

Designation							
S25S PTFNR/L-16	TTN 322	TTN 332*	SP 3	LR 3	SR 117-2014	HW 2.5/5	PN 3-4
S32T PTFNR/L-16	TTN 322	TTN 332*	SP 3	LR 3	SR 117-2014	HW 2.5/5	PN 3-4
S40U PTFNR-16	TTN 322		SP 3	LR 3	SR 117-2014	HW 2.5/5	PN 3-4

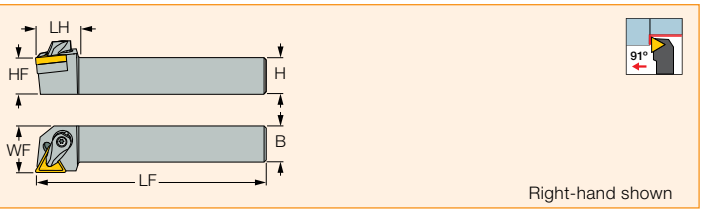
* Optional, to be ordered separately

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

ISOTURN

DTGNR/L

91° Entering Angle R-CLAMP External Turning Tools Carrying Negative Triangular Inserts



Right-hand shown

Designation	H	HF	B	LF	LH	WF	MIID(1)
DTGNR/L 2020K-16	20.0	20.0	20.0	125.00	25.0	25.00	TNMG 1604
DTGNR/L 2525M-16	25.0	25.0	25.0	150.00	25.0	32.00	TNMG 1604

(1) Master insert identification

Spare Parts

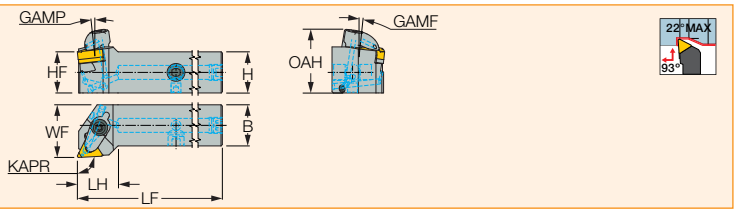
Designation						
DTGNR/L 2020K-16	RTT 322	SR 35080I	LCGR-3	SR RC3	KSP 3	HW 2.5
DTGNR/L 2525M-16	RTT 322	SR 35080I	LCGR-3	SR RC3	KSP 3	HW 2.5

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

ISOTURN

DTJNR/L-16-JHP-MC

Ext. Turning Tools Featuring Rigid Locking and High-Pressure Coolant (HPC) Channels, for Negative Triangular Inserts.



Designation	H	HF	OAH	B	LF	LH	WF	GAMP(1)	GAMF(2)	MIID(3)
DTJNR/L 2020X-16-JHP-MC	20.0	20.0	34.04	20.0	95.00	25.0	25.00	6.0	6.0	TNMG 1604
DTJNR/L 2525X-16-JHP-MC	25.0	25.0	39.04	25.0	110.00	25.0	32.00	6.0	6.0	TNMG 1604

(1) Rake angle axial
(2) Rake angle radial
(3) Master insert identification

Spare Parts

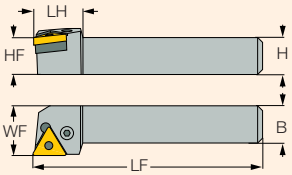
Designation								
DTJNR/L-16-JHP-MC	TTX 3	TTN 3	SP 3	SR M4X4 DIN913 TL360	PN 3-4	HW 2.5	PLG G1/8 TL360	SR M6X6 DIN913 TL360

HELITURN LD

PTGNR/L-X

91° Entering Angle Lever Lock External Turning Tools Carrying Negative Triangular Inserts

MAXVALUE MINIMUM COST MAXIMUM OUTPUT



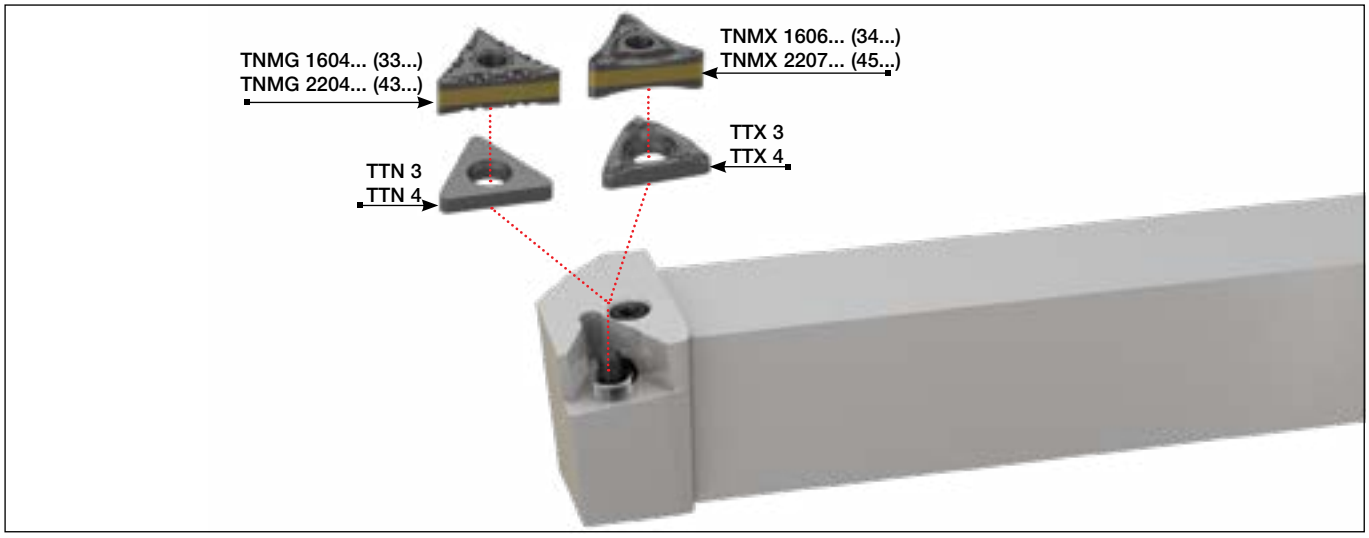


Right hand tool shown

Designation	H	HF	B	LF	LH	WF	MIID(1)
PTGNR/L 2020K-16X	20.0	20.0	20.0	125.00	20.0	25.00	TNMX 1606, TNMG 1604
PTGNR/L 2525M-16X	25.0	25.0	25.0	150.00	20.0	32.00	TNMX 1606, TNMG 1604

- Use TTX 3 seat for TNMX 1606.. inserts and TTN 3 seat for TNMG 1604.. inserts

(1) Master insert identification



Spare Parts

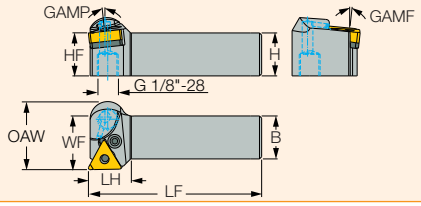
Designation							
PTGNR/L 2020K-16X	TTX 3	TTN 3	SP 3	LR 3	SR 117-2014	HW 2.5	PN 3-4
PTGNR/L 2525M-16X	TTX 3	TTN 3	SP 3	LR 3	SR 117-2014	HW 2.5	PN 3-4

HELITURN LD

PTGNR/L-X-JHP

91° Entering Angle Lever Lock Tools with Channels for High-Pressure Coolant Carrying Negative Triangular Inserts

MAXVALUE MINIMUM COST MAXIMUM OUTPUT





Right hand tool shown

Designation	H	HF	B	LF	LH	WF	OAW	GAMP(1)	GAMF(2)	MIID(3)
PTGNR/L 2020K-16X-JHP	20.0	20.0	20.0	125.00	20.0	25.00	31.70	-6.0	-6.0	TNMX 1606, TNMG 1604
PTGNR/L 2525M-16X-JHP	25.0	25.0	25.0	150.00	20.0	32.00	-	-6.0	-6.0	TNMX 1606, TNMG 1604

(1) Rake angle axial
(2) Rake angle radial
(3) Master insert identification

Spare Parts

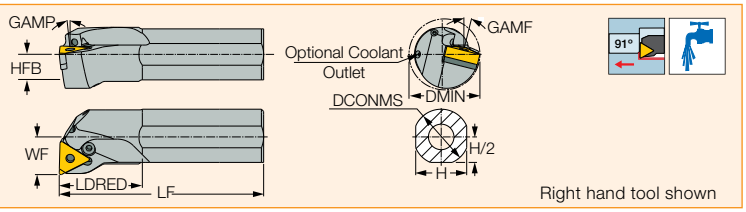
Designation							
PTGNR/L-X-JHP	TTX 3	TTN 3	SP 3	LR 3	SR 117-2014	HW 2.5	PN 3-4

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

HELITURN LD

A-PTFNR/L-X/G

91° Entering Angle Lever Lock Boring Bars Carrying Negative TNMX or TNMG Triangular Inserts



Designation	DCONMS	LF	LDRED	H	HFB	WF	CSP(1)	GAMP(2)	GAMF(3)	DMIN	MIID(4)
A16M PTFNR/L-16G	16.00	150.00	31.0	15.0	7.5	11.00	1	-12.0	-16.0	20.00	TNMG 1604
A20Q PTFNR/L-16G	20.00	180.00	31.0	18.0	9.0	13.00	1	-6.0	-14.0	25.00	TNMG 1604
A25S PTFNR/L-16X	25.00	250.00	37.5	23.0	11.5	17.00	1	-6.0	-14.0	32.00	TNMX 1606, TNMG 1604
A32T PTFNR/L-16X	32.00	300.00	48.0	29.0	14.5	22.00	1	-6.0	-12.0	40.00	TNMX 1606, TNMG 1604
A40U PTFNR/L-16X	40.00	350.00	50.0	36.0	18.0	27.00	1	-6.0	-12.0	50.00	TNMX 1606, TNMG 1604

- Use TTX 3 seat for TNMX 1606.. inserts and TTN 3 seat for TNMG 1604.. inserts

(1) 0 - Without coolant supply, 1 - With coolant supply
(2) Rake angle axial
(3) Rake angle radial
(4) Master insert identification

Spare Parts

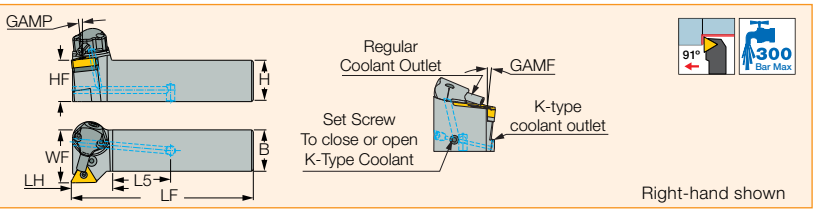
Designation										
A16M PTFNR/L-16G					LR 3S	SR 117-2009			HW 2.0	PL 16
A20Q PTFNR/L-16G					LR 3S	SR 117-2009	SR M4X4 DIN913 TL360		HW 2.0	PL 20
A25S PTFNR/L-16X	TTX 3	TTN 3	SP 3	PN 3-4	LR 3	SR 117-2014	SR M4X4 DIN913 TL360		HW 2.5	PL 25
A32T PTFNR/L-16X	TTX 3	TTN 3	SP 3	PN 3-4	LR 3	SR 117-2014	SR M4X4 DIN913 TL360		HW 2.5	PL 32
A40U PTFNR/L-16X	TTX 3	TTN 3	SP 3	PN 3-4	LR 3	SR 117-2014	SR M4X4 DIN913 TL360		HW 2.5	PL 40

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

HELITURN LD

PTGNR/L-X-JHP-MC

Tools with Bottom Inlets for High-Pressure Coolant Carrying TNMX and TNMG Triangular Inserts



Designation	H	HF	B	LF	LH	L5	WF	GAMP(1)	GAMF(2)	MIID(3)
PTGNR/L 2020X-16X-JHP-MC	20.0	20.0	20.0	95.00	25.0	29.00	25.00	-6.0	-6.0	TNMX 1606, TNMG 1604
PTGNR/L 2525X-16X-JHP-MC	25.0	25.0	25.0	110.00	25.0	35.00	32.00	-6.0	-6.0	TNMX 1606, TNMG 1604

(1) Rake angle axial
(2) Rake angle radial
(3) Master insert identification

Spare Parts

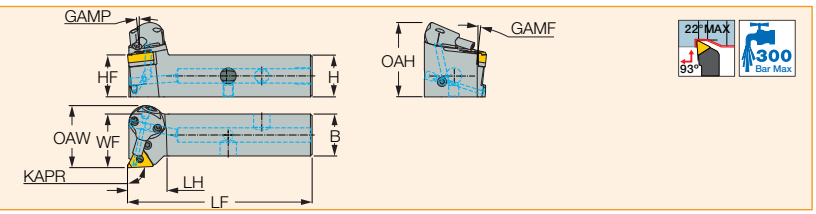
Designation										
PTGNR/L-X-JHP-MC	TTX 3	TTN 3	SP 3	LR 3	SR 117-2014	T-8/5	SR M5X5 DIN913 TL360	PN 3-4	HW 2.5	CU-S-JHP

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

HELITURN LD

PTJNR/L-16-JHP-MC

Lever-lock Tools for High-pressure Coolant use TNMX/TNMG Inserts



Designation	H	HF	OAH	B	LF	LH	WF	OAW	KAPR(1)	GAMP(2)	GAMF(3)	MIID(4)
PTJNR/L 2020X-16X-JHP-MC	20.0	20.0	39.00	20.0	95.00	25.0	25.00	37.00	93.0	6.0	6.0	TNMG 1604
PTJNR/L 2525X-16X-JHP-MC	25.0	25.0	44.00	25.0	110.00	25.0	32.00	37.00	93.0	6.0	6.0	TNMG 1604

- Supplied with TTX 3 seat for TNMX 1606.. inserts and TTN 3 seat for TNMG 1604.. inserts.

(1) Tool cutting edge angle
(2) Rake angle axial
(3) Rake angle radial
(4) Master insert identification

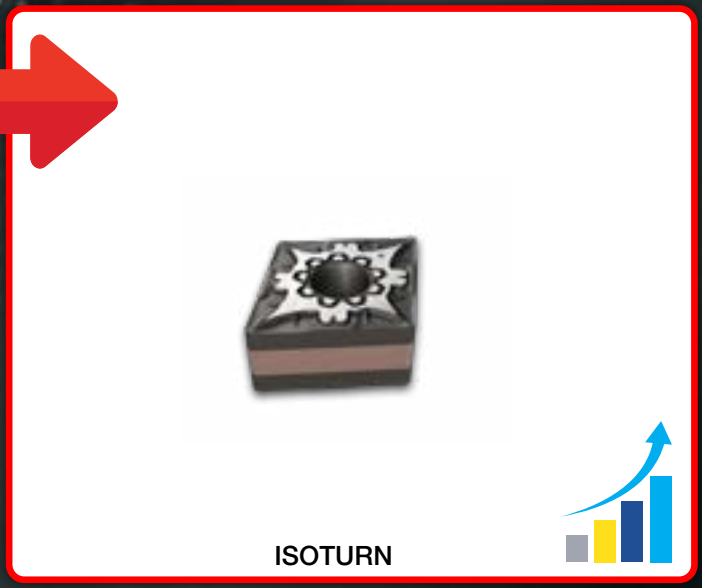
Spare Parts

Designation												
PTJNR/L-16-JHP-MC	TTX 3	TTN 3	SP 3	LR 3	SR 117-2014	T-8/5	SR M5X5 DIN913 TL360	PN 3-4	HW 2.5	CU-S-JHP	PLG G1/8 TL360	SR M6X6 DIN913 TL360

MAXVALUE

MINIMUM COST MAXIMUM OUTPUT





ISOTURN

ISCAR FLASH-TURN offers a **more economical alternative to standard-size inserts by lowering cost per cutting edge, improving operational efficiency, and minimizing inventory costs.**



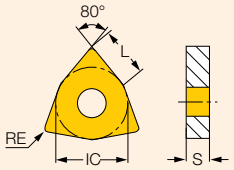
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

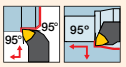
ISOTURN

WNMG-F3P

Double-Sided Trigon Inserts for Semi-Finishing and Finishing Applications







Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC8250	IC8150	IC20N	IC520N	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
WNMG 060404-F3P	6.52	9.52	4.76	0.40	●	●	●	●	●	●	0.50-2.50	0.070-0.250
WNMG 060408-F3P	6.52	9.52	4.76	0.80	●	●	●	●	●	●	0.90-3.00	0.080-0.250
WNMG 060412-F3P	6.52	9.52	4.76	1.20	●	●	●			●	1.30-3.00	0.100-0.250

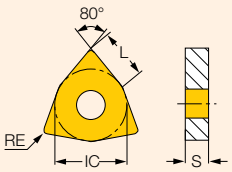
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

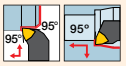
ISOTURN

WNMG-M3P

Double-Sided Trigon Inserts for Medium Machining Conditions on Steel







Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC8250	IC8150	IC5010	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
WNMG 060404-M3P	6.52	9.52	4.76	0.40	●	●	●		●	0.45-2.50	0.100-0.450
WNMG 060408-M3P	6.52	9.52	4.76	0.80	●	●	●		●	0.50-3.00	0.150-0.500
WNMG 060412-M3P	6.52	9.52	4.76	1.20	●		●		●	0.80-3.00	0.180-0.600

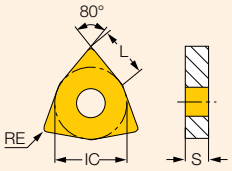
ISOTURN

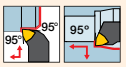
WNMG-F3M

Double-Sided Trigon
Inserts for Stainless Steel
Finishing Applications

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT







Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC6025	IC6015	IC806	IC807	IC706	Recommended Machining Data a_p (mm)	f (mm/rev)
WNMG 060404-F3M	6.52	9.52	4.76	0.40	●	●	●	●	●	●	0.10-1.50	0.050-0.300
WNMG 060408-F3M	6.52	9.52	4.76	0.80	●	●	●	●	●	●	0.10-1.50	0.100-0.400
WNMG 060412-F3M	6.52	9.52	4.76	1.20		●	●	●	●	●	0.20-2.50	0.150-0.500

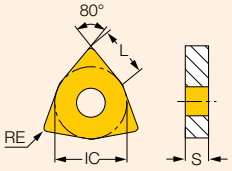
ISOTURN

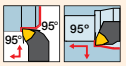
WNMG-M3M

Double-Sided Trigon Inserts
for Machining Stainless
and Low Carbon Steel

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

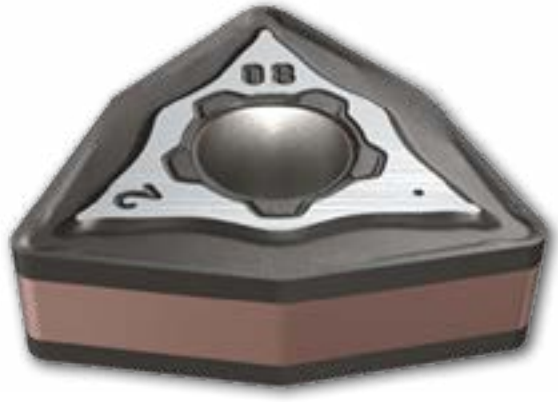






Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC6025	IC6015	IC806	IC1017	IC807	IC706	Recommended Machining Data a_p (mm)	f (mm/rev)
WNMG 060404-M3M	6.52	9.52	4.76	0.40	●	●	●	●	●	●	●	0.50-3.50	0.120-0.400
WNMG 060408-M3M	6.52	9.52	4.76	0.80	●	●	●	●		●	●	0.50-3.50	0.150-0.500
WNMG 060412-M3M	6.52	9.52	4.76	1.20	●	●	●	●		●	●	0.50-3.50	0.200-0.600

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT



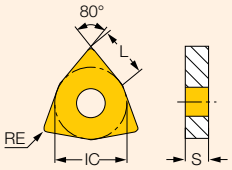
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

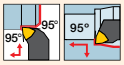
ISOTURN

WNMG-NF

Double-Sided Trigon Inserts
for Semi-Finishing and
Finishing Applications







Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC8250	IC8150	IC9150	IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
WNMG 060402-NF	6.52	9.52	4.76	0.20				●	●	0.30-3.00	0.050-0.200
WNMG 060404-NF	6.52	9.52	4.76	0.40	●			●	●	0.60-3.00	0.080-0.250
WNMG 060408-NF	6.52	9.52	4.76	0.80		●	●			0.80-3.00	0.080-0.250

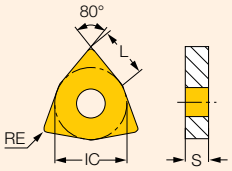
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

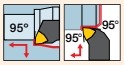
ISOTURN

WNMG-GN

Double-Sided Trigon Inserts
for General Applications







Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC8250	IC9250	IC8150	Recommended Machining Data a_p (mm)	f (mm/rev)
WNMG 060404-GN	6.52	9.52	4.76	0.40	●			1.00-3.50	0.140-0.400
WNMG 060408-GN	6.52	9.52	4.76	0.80	●	●		1.00-3.50	0.160-0.450
WNMG 060412-GN	6.52	9.52	4.76	1.20			●	1.50-4.00	0.180-0.450

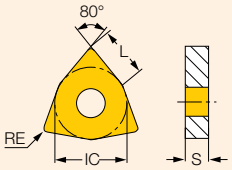
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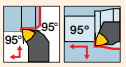
WNMG-PP

Double-Sided Trigon Inserts for Machining Very Ductile Materials under Medium Cutting Conditions

MAXVALUE MINIMUM COST MAXIMUM OUTPUT







Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC8350	IC9350	IC8250	IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
WNMG 060404-PP	6.52	9.52	4.76	0.40	●	●	●	●	●	1.00-3.00	0.140-0.300
WNMG 060408-PP	6.52	9.52	4.76	0.80	●	●		●	●	1.00-3.00	0.140-0.300

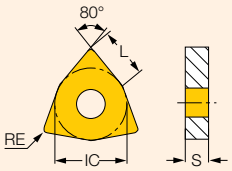
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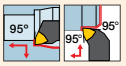
WNMG-TF

Double-Sided Trigon Inserts for Machining a Wide Range of Materials under Medium Cutting Conditions

MAXVALUE MINIMUM COST MAXIMUM OUTPUT

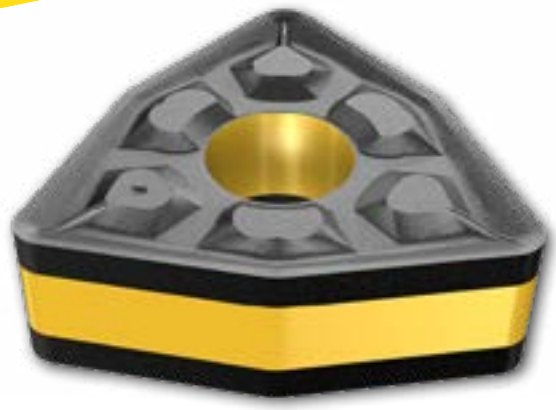






Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC9250	IC8250	IC9150	IC808	IC8150	IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
WNMG 060404-TF	6.52	9.52	4.76	0.40		●	●				●	●	1.00-3.00	0.120-0.350
WNMG 060408-TF	6.52	9.52	4.76	0.80	●	●	●	●	●	●	●	●	1.00-3.00	0.120-0.350
WNMG 060412-TF	6.52	9.52	4.76	1.20							●	●	1.00-4.00	0.150-0.350

MAXVALUE MINIMUM COST MAXIMUM OUTPUT



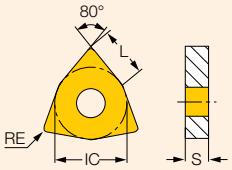
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

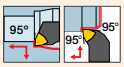
ISOTURN

WNMG-WF

Double-Sided Trigon Wiper Inserts for Finishing Operations at High Feeds







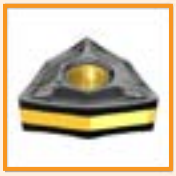
Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
WNMG 060402-WF	6.52	9.52	4.76	0.20		●	0.20-3.00	0.050-0.250
WNMG 060404-WF	6.52	9.52	4.76	0.40	●	●	0.50-3.00	0.050-0.300
WNMG 060408-WF	6.52	9.52	4.76	0.80		●	0.80-3.50	0.070-0.300

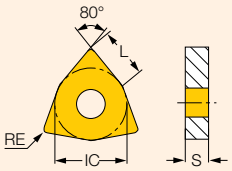
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

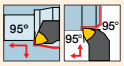
ISOTURN

WNMG-WG

Double-Sided Trigon Wiper Inserts for High Surface Finish at High Feed Turning







Designation	Dimensions IC	L	S	RE	Tough ↔ Hard IC8250	IC530N	IC8150	IC9150	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
WNMG 060404-WG	9.52	6.52	4.76	0.40	●	●	●		●	0.40-3.00	0.100-0.350
WNMG 060408-WG	9.52	6.52	4.76	0.80	●		●	●	●	0.60-3.50	0.100-0.500

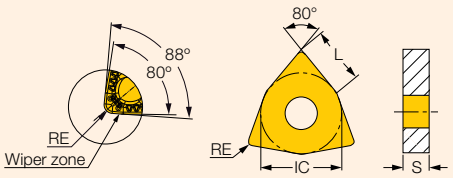
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

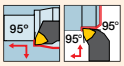
HELITURN LD

WNMX-M3/4PW

Double-Sided Trigon Inserts with High Helical Cutting Edge for High Metal Removal Rates







Designation	Dimensions IC	RE	S	L	Tough ↔ Hard IC830	IC8250	IC8150	IC520N	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
WNMX 060604-M3PW	9.52	0.40	4.41	6.50	●	●	●			1.00-4.00	0.200-0.500
WNMX 060608-M3PW	9.52	0.80	4.41	6.50	●	●	●	●	●	1.50-4.00	0.250-0.600

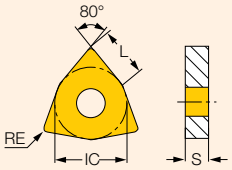
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

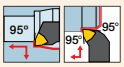
ISOTURN

WNMA/WNMA-WG

Double-Sided Trigon Inserts
for Short Chipping Materials
such as Cast Iron







Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC5010	IC428	IC5005	Recommended Machining Data a_p (mm)	f (mm/rev)
WNMA 060404	6.52	9.52	4.76	0.40	●		●	1.00-3.00	0.030-0.500
WNMA 060408	6.52	9.52	4.76	0.80	●	●	●	1.00-3.00	0.030-0.500
WNMA 060412	6.52	9.52	4.76	1.20	●		●	1.00-3.00	0.030-0.500

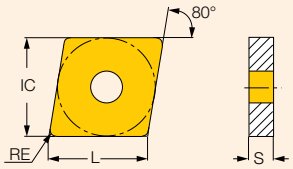
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

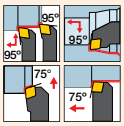
ISOTURN

CNMG-F3P

Double-Sided 80° Rhombic
Inserts for Semi-Finishing
and Finishing Applications







Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC8250	IC8150	IC20N	IC520N	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
CNMG 090404-F3P	9.67	9.52	4.76	0.40	●	●	●	●	●	●	0.50-3.50	0.070-0.250
CNMG 090408-F3P	9.67	9.52	4.76	0.80	●	●	●	●	●	●	0.90-3.50	0.080-0.250

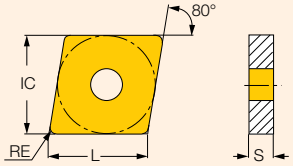
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

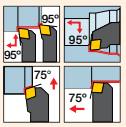
ISOTURN

CNMG-M3P

Double-Sided 80° Rhombic Inserts for Medium Machining Conditions on Steel







Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC8250	IC8150	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
CNMG 090404-M3P	9.67	9.52	4.76	0.40	●	●	●	●	0.40-4.00	0.100-0.300
CNMG 090408-M3P	9.67	9.52	4.76	0.80	●	●	●	●	0.50-4.50	0.150-0.500

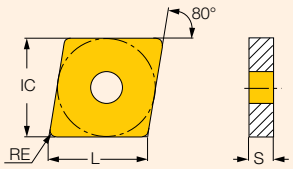
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

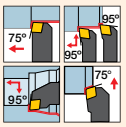
ISOTURN

CNMG-F3M

Double-sided 80° Rhombic Inserts for Stainless Steel Finishing Applications







Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC6025	IC6015	IC806	IC807	IC706	Recommended Machining Data a_p (mm)	f (mm/rev)
CNMG 090404-F3M	9.67	9.52	4.76	0.40	●	●	●	●	●	●	0.10-1.50	0.050-0.300
CNMG 090408-F3M	9.67	9.52	4.76	0.80	●	●	●	●	●	●	0.10-1.50	0.100-0.400

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT



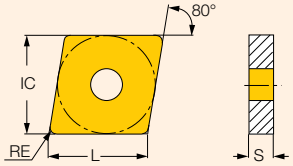
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

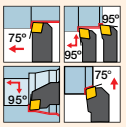
ISOTURN

CNMG-M3M

Double-Sided 80° Rhombic Inserts for Machining Stainless and Low Carbon Steel







Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC6025	IC6015	IC806	IC1017	IC807	IC706	Recommended Machining Data a_p (mm)	f (mm/rev)
CNMG 090404-M3M	9.67	9.52	4.76	0.40	•	•	•	•		•	•	0.50-4.50	0.150-0.500
CNMG 090408-M3M	9.67	9.52	4.76	0.80	•	•	•	•	•	•	•	0.50-4.50	0.150-0.500

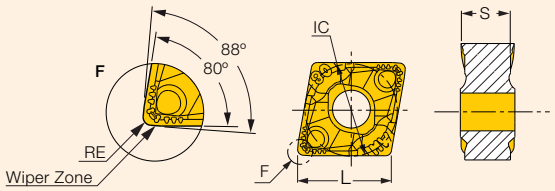
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

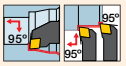
HELITURN LD

CNMX-M3/4PW

Double-Sided 80° Rhombic Inserts with a High Helical Cutting Edge for High Metal Removal Rates







Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC8250	IC8150	IC20N	IC520N	Recommended Machining Data a_p (mm)	f (mm/rev)
CNMX 090604-M3PW	9.67	9.52	4.40	0.40	•	•	•			1.00-4.50	0.200-0.500
CNMX 090608-M3PW	9.67	9.52	4.40	0.80	•	•	•	•	•	1.50-5.00	0.250-0.600

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

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

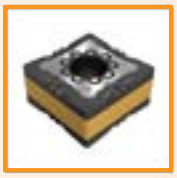


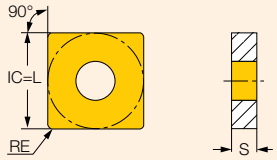
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

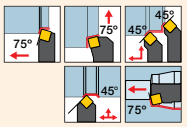
ISOTURN

SNMG-F3P

Double-Sided Square Inserts for Semi-Finishing and Finishing on Steel







Designation	Dimensions IC	S	RE	Tough ↔ Hard IC830	IC8250	IC8150	IC20N	IC520N	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
SNMG 090404-F3P	9.52	4.76	0.40	●	●	●	●		●	0.50-3.50	0.070-0.250
SNMG 090408-F3P	9.52	4.76	0.80	●			●	●	●	0.90-3.50	0.080-0.250

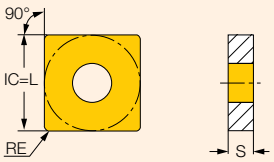
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

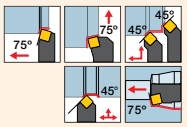
ISOTURN

SNMG-M3P

Double-Sided Square Inserts for Medium Machining Conditions on Steel







Designation	Dimensions IC	S	RE	Tough ↔ Hard IC830	IC8250	IC8150	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
SNMG 090404-M3P	9.52	4.76	0.40	●	●	●	●	0.50-3.50	0.150-0.500
SNMG 090408-M3P	9.52	4.76	0.80	●	●	●	●	0.50-3.50	0.150-0.550

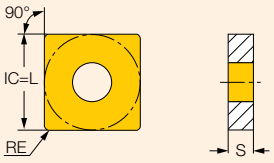
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

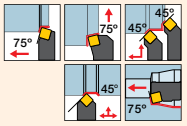
ISOTURN

SNMG-F3M

Double-Sided Square Inserts for Stainless Steel Finishing Applications







Designation	Dimensions IC	S	RE	Tough ↔ Hard IC830	IC6025	IC6015	IC806	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
SNMG 090404-F3M	9.52	4.76	0.40		●	●	●	●	0.50-3.50	0.050-0.300
SNMG 090408-F3M	9.52	4.76	0.80	●			●	●	0.50-3.50	0.050-0.300

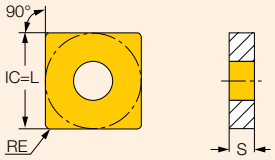
ISOTURN

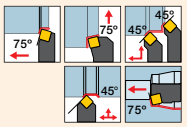
SNMG-M3M

Double-Sided Square Inserts with a Special Chipformer for Heavy Machining

MAXVALUE MINIMUM COST MAXIMUM OUTPUT







Designation	Dimensions IC	S	RE	Tough ↔ Hard IC830	IC6025	IC6015	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
SNMG 090404-M3M	9.52	4.76	0.40	●			●	0.50-4.50	0.150-0.500
SNMG 090408-M3M	9.52	4.76	0.80	●	●	●	●	0.50-4.50	0.150-0.500

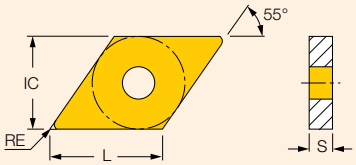
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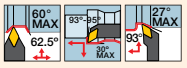
DNMG-F3P

Double-Sided 55° Rhombic Inserts for Semi-Finishing and Finishing on Steel

MAXVALUE MINIMUM COST MAXIMUM OUTPUT







Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC8250	IC8150	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
DNMG 110404-F3P	11.63	9.52	4.76	0.40	●	●	●	●	0.80-3.00	0.070-0.250
DNMG 110408-F3P	11.63	9.52	4.76	0.80	●	●	●	●	0.80-3.50	0.080-0.250
DNMG 110412-F3P	11.63	9.52	4.76	1.20	●	●	●	●	1.40-4.00	0.100-0.250

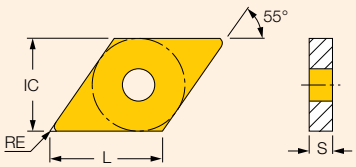
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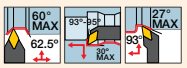
DNMG-M3P

Double-Sided 55° Rhombic Inserts for Medium Machining Conditions on Steel

MAXVALUE MINIMUM COST MAXIMUM OUTPUT







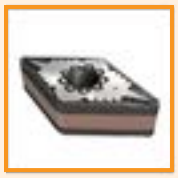
Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC8250	IC8150	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
DNMG 110408-M3P	11.63	9.52	4.76	0.80	●	●	●	●	0.50-5.00	0.150-0.500
DNMG 110412-M3P	11.63	9.52	4.76	1.20	●		●	●	0.80-5.00	0.180-0.600

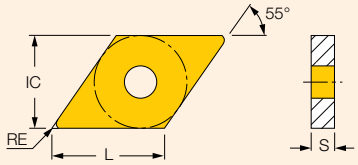
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

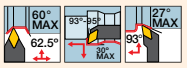
ISOTURN

DNMG-F3M

Double-Sided 55° Rhombic Inserts for Finish on Turning Stainless steel and High temperature alloy







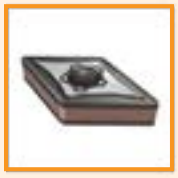
Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC6025	IC6015	IC806	IC807	IC706	Recommended Machining Data a_p (mm)	f (mm/rev)
DNMG 110404-F3M	11.63	9.52	4.76	0.40	●	●	●	●	●	●	0.10-1.50	0.050-0.320
DNMG 110408-F3M	11.63	9.52	4.76	0.80	●	●	●	●	●	●	0.10-1.50	0.100-0.420
DNMG 110412-F3M	11.63	9.52	4.76	1.20		●	●	●	●		0.15-2.00	0.150-0.520

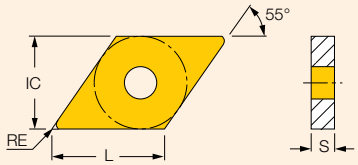
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

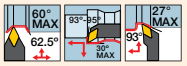
ISOTURN

DNMG-M3M

Double-Sided 55° Rhombic Inserts for Machining Stainless and Low Carbon Steel







Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC6025	IC6015	IC806	IC807	IC706	Recommended Machining Data a_p (mm)	f (mm/rev)
DNMG 110404-M3M	11.63	9.52	4.76	0.40	●	●	●	●	●	●	0.50-3.50	0.120-0.400
DNMG 110408-M3M	11.63	9.52	4.76	0.80	●	●	●	●	●	●	0.50-4.00	0.150-0.500
DNMG 110412-M3M	11.63	9.52	4.76	1.20	●	●	●	●	●		0.50-4.00	0.200-0.600

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT



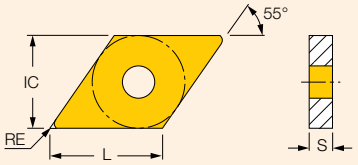
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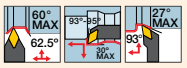
DNMG-GN

Double-Sided 55° Rhombic
Inserts for General Applications

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT







Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC8250	IC9250	IC8150	IC9150	IC5010	IC5005	Recommended Machining Data a_p (mm)	f (mm/rev)
DNMG 110408-GN	11.63	9.52	4.76	0.80	●	●	●	●	●		1.00-4.00	0.180-0.380
DNMG 110412-GN	11.63	9.52	4.76	1.20	●		●	●		●	1.50-4.50	0.180-0.380

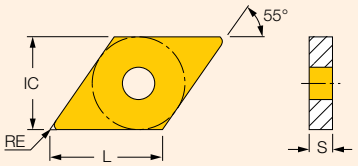
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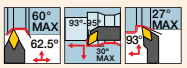
DNMG-NF

Double-Sided 55° Rhombic
Inserts for Semi-Finishing
and Finishing Applications

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT







Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC8350	IC9350	IC8250	IC9250	IC530N	IC8150	IC9150	IC20N	IC520N	IC5010	IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
DNMG 110402-NF	11.63	9.52	4.76	0.20		●	●	●			●		●			●	●	0.40-2.50	0.070-0.180
DNMG 110404-NF	11.63	9.52	4.76	0.40	●		●	●	●		●	●	●	●	●	●	●	0.80-3.00	0.070-0.250
DNMG 110408-NF	11.63	9.52	4.76	0.80	●		●	●	●	●	●	●	●			●	●	1.00-3.50	0.080-0.250

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT



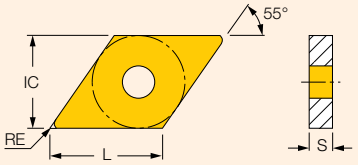
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

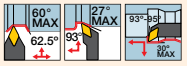
ISOTURN

DNMG-TF

Double-Sided 55° Rhombic Inserts for Machining a Wide Range of Materials under Medium Cutting Conditions







Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC8250	IC9250	IC530N	IC20	Recommended Machining Data a_p (mm)	f (mm/rev)
DNMG 110404-TF	11.63	9.52	4.76	0.40	●	●	●	●	1.00-3.00	0.120-0.300
DNMG 110412-TF	11.63	9.52	4.76	1.20	●				1.50-4.00	0.150-0.350

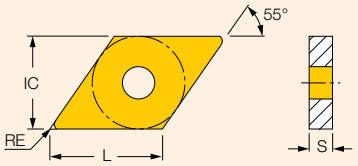
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

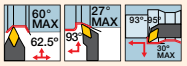
ISOTURN

DNMG-PP

55° Double-Sided Rhombic Inserts for Machining Very Ductile Materials under Medium Cutting Conditions







Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC9350	IC8250	IC9150	IC10	IC8150	IC20	Recommended Machining Data a_p (mm)	f (mm/rev)
DNMG 110404-PP	11.63	9.52	4.76	0.40		●	●	●			●	0.40-3.00	0.120-0.300
DNMG 110408-PP	11.63	9.52	4.76	0.80	●	●	●	●	●	●		1.00-3.50	0.120-0.300

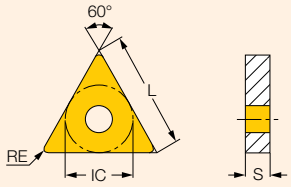
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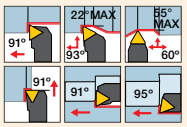
TNMG-F3P

Double-Sided Triangular Inserts for Semi-Finishing and Finishing Applications

MAXVALUE MINIMUM COST MAXIMUM OUTPUT







Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC8250	IC8150	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
TNMG 160404-F3P	16.50	9.52	4.76	0.40	●	●	●	●	0.50-2.00	0.070-0.250
TNMG 160408-F3P	16.50	9.52	4.76	0.80	●	●	●	●	0.90-3.00	0.080-0.250
TNMG 160412-F3P	16.50	9.52	4.76	1.20	●	●	●	●	1.30-4.00	0.100-0.250

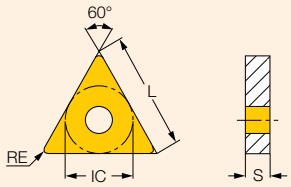
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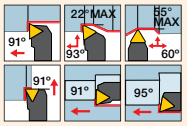
TNMG-M3P

Double-Sided Triangular Inserts for Medium Machining Conditions on Steel

MAXVALUE MINIMUM COST MAXIMUM OUTPUT







Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC8250	IC8150	IC5005	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
TNMG 160404-M3P	16.50	9.52	4.76	0.40	●	●	●		●	0.40-5.00	0.100-0.300
TNMG 160408-M3P	16.50	9.52	4.76	0.80	●	●	●		●	0.50-5.00	0.150-0.500
TNMG 160412-M3P	16.50	9.52	4.76	1.20	●	●	●	●	●	0.80-5.00	0.180-0.600

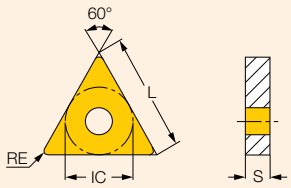
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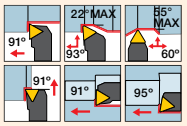
TNMG-F3M

Double-Sided Triangular Inserts for Finish Turning on Stainless and Low Carbon Steel

MAXVALUE MINIMUM COST MAXIMUM OUTPUT







Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC6025	IC6015	IC20N	IC520N	IC806	IC807	IC706	IC804	Recommended Machining Data a_p (mm)	f (mm/rev)
TNMG 160404-F3M	16.50	9.52	4.76	0.40	●	●	●	●	●	●	●	●		0.10-1.50	0.050-0.320
TNMG 160408-F3M	16.50	9.52	4.76	0.80	●	●	●	●	●	●	●	●	●	0.10-1.50	0.100-0.420
TNMG 160412-F3M	16.50	9.52	4.76	1.20	●	●	●			●	●			0.15-2.00	0.150-0.520

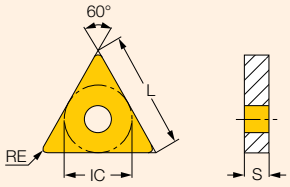
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

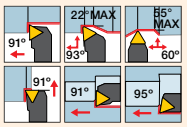
ISOTURN

TNMG-M3M

Double-Sided Triangular Inserts for Machining Stainless and Low Carbon Steel







Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC6025	IC6015	IC807	IC706	IC804	Recommended Machining Data a_p (mm)	f (mm/rev)
TNMG 160404-M3M	16.50	9.52	4.76	0.40	●			●	●		0.50-4.00	0.150-0.500
TNMG 160408-M3M	16.50	9.52	4.76	0.80	●	●	●	●	●	●	0.50-4.00	0.150-0.500
TNMG 160412-M3M	16.50	9.52	4.76	1.20	●	●	●	●			0.50-4.00	0.200-0.600

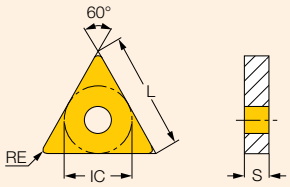
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

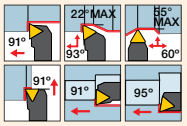
ISOTURN

TNMG-GN

Double-Sided Triangular Inserts for General Applications







Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC8350	IC9350	IC8250	IC9250	IC8150	IC9150	IC20	IC5010	IC428	IC5005	IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
TNMG 160404-GN	16.50	9.52	4.76	0.40										●	●			1.00-3.00	0.120-0.300
TNMG 160408-GN	16.50	9.52	4.76	0.80	●	●	●	●	●	●	●	●	●	●	●	●	●	1.00-3.50	0.180-0.390
TNMG 160412-GN	16.50	9.52	4.76	1.20				●	●	●	●							1.50-4.00	0.180-0.430

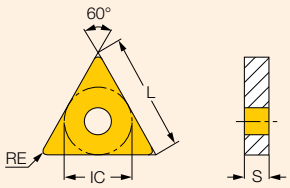
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

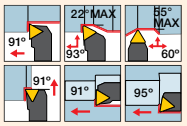
ISOTURN

TNMG-NF

Double-Sided Triangular Inserts for Semi-Finishing and Finishing Applications







Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC8250	IC9250	IC8150	IC9150	Recommended Machining Data a_p (mm)	f (mm/rev)
TNMG 160408-NF	16.50	9.52	4.76	0.80	●	●	●	●	1.00-3.00	0.080-0.250

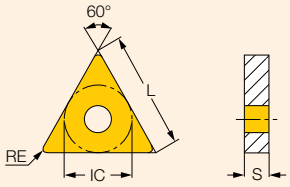
ISOTURN

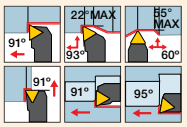
TNMG-PF

Triangular Double-Sided Inserts for Finishing on Alloyed and Stainless Steel

MAXVALUE MINIMUM COST MAXIMUM OUTPUT







Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC8150	IC9150	Recommended Machining Data a_p (mm)	f (mm/rev)
TNMG 160408-PF	16.50	9.52	4.76	0.80	●	●	0.80-3.00	0.080-0.300

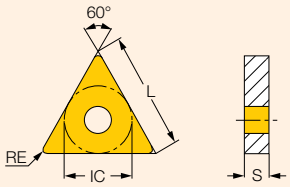
ISOTURN

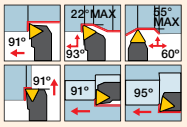
TNMG-SF

Triangular Double-Sided Inserts for Super Finishing; Controls Chip Flow at Very Low Feeds and Depths of Cut

MAXVALUE MINIMUM COST MAXIMUM OUTPUT







Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC8250	IC530N	IC520N	IC570	Recommended Machining Data a_p (mm)	f (mm/rev)
TNMG 160404-SF	16.50	9.52	4.76	0.40		●	●	●	0.40-2.00	0.040-0.250
TNMG 160408-SF	16.50	9.52	4.76	0.80	●	●		●	1.00-3.00	0.060-0.300

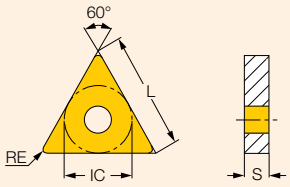
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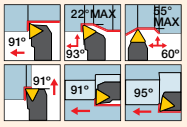
TNMG-TF

Double-Sided Triangular Inserts for Machining a Wide Range of Materials under Medium Cutting Conditions

MAXVALUE MINIMUM COST MAXIMUM OUTPUT







Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC9350	IC8250	IC9250	IC808	IC908	IC6015	IC8150	IC9150	IC20	IC20N	IC806	IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
TNMG 160404-TF	16.50	9.52	4.76	0.40	●		●	●			●	●	●	●		●	●	●	1.00-3.00	0.120-0.300
TNMG 160408-TF	16.50	9.52	4.76	0.80	●	●	●	●	●	●	●	●	●		●	●	●	●	1.00-3.00	0.120-0.300
TNMG 160412-TF	16.50	9.52	4.76	1.20			●					●	●				●	●	1.00-5.00	0.120-0.200

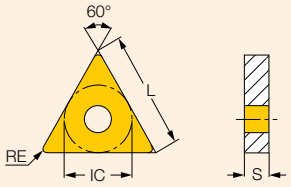
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

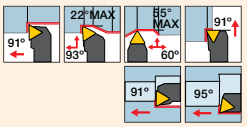
ISOTURN

TNMG-VL

Double-Sided Triangular Inserts with a Chipformer for High Temperature Alloys and Stainless Steel Valves







Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC908	IC806	IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
TNMG 160404-VL	16.50	9.52	4.76	0.40		●			0.80-3.50	0.100-0.250
TNMG 160408-VL	16.50	9.52	4.76	0.80	●	●	●	●	0.80-3.50	0.100-0.250

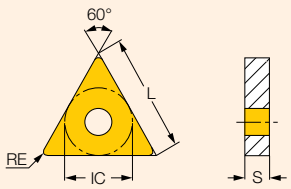
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

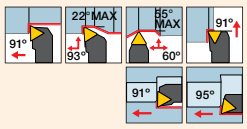
ISOTURN

TNMG/TNGG-PP

Double-Sided Triangular Inserts for Machining Very Ductile Materials under Medium Cutting Conditions







Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC9350	IC8350	IC8250	IC9250	IC9150	IC8150	IC20	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
TNGG 160402-PP	16.50	9.52	4.76	0.20									●	0.50-1.50	0.050-0.250
TNMG 160404-PP	16.50	9.52	4.76	0.40		●	●	●	●	●		●		0.50-3.00	0.130-0.300
TNMG 160408-PP	16.50	9.52	4.76	0.80	●	●		●	●	●	●	●		1.00-3.00	0.120-0.300

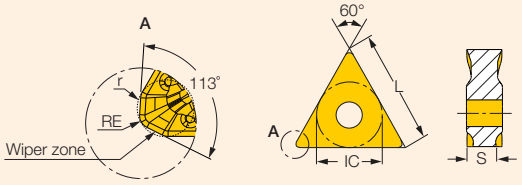
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

HELITURN LD

TNMX-M3/4PW

Double-Sided Triangular Inserts with High Helical Cutting Edge for High Metal Removal Rates on Steel







Designation	Dimensions L	IC	S	r	RE	Tough ↔ Hard IC830	IC8250	IC8150	Recommended Machining Data a_p (mm)	f (mm/rev)
TNMX 160604-M3PW	16.50	9.52	4.40	0.40	0.20	●	●	●	2.00-5.00	0.250-0.400
TNMX 160608-M3PW	16.50	9.52	4.40	0.80	0.40	●	●	●	2.50-5.50	0.300-0.500

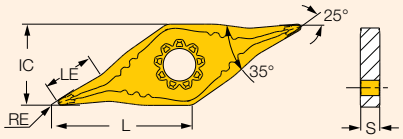
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

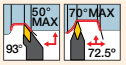
ISOTURN

YNMG-F3P

Double-Sided 25° Corner Inserts for Internal and External Deep and Narrow Profiling and Undercutting







Designation	Dimensions L	IC	LE	S	RE	Tough ↔ Hard IC8250	IC8150	IC806	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
YNMG 160404-F3P	16.60	9.52	5.7	4.76	0.40	●	●	●	●	0.40-3.00	0.030-0.120
YNMG 160408-F3P	16.60	9.52	5.3	4.76	0.80	●	●	●	●	0.90-4.00	0.050-0.150

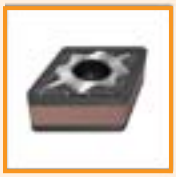
• Use IYSN 322 seat for these inserts

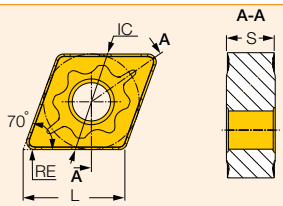
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

NEOTURN
ISOTURNING

XNMG-F3M

Double-sided 70° Rhombic Inserts for Stainless Steel Finishing Applications







Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC6025	IC6015	IC806	IC807	IC706	Recommended Machining Data a_p (mm)	f (mm/rev)
XNMG 090404-F3M	10.14	9.52	4.76	0.40	●	●	●	●	●	●	0.40-1.50	0.070-0.250
XNMG 090408-F3M	10.14	9.52	4.76	0.80	●	●	●	●	●	●	0.50-1.50	0.100-0.250

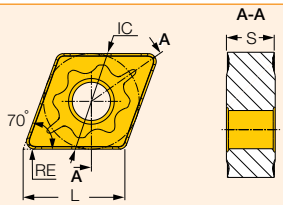
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

NEOTURN
ISOTURNING

XNMG-F3P

Double-Sided 70° Rhombic Inserts for Semi-Finishing and Finishing Applications







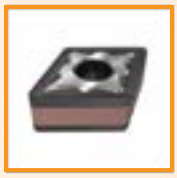
Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC8250	IC8150	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
XNMG 090404-F3P	10.14	9.52	4.76	0.40	●	●	●	●	0.50-3.50	0.070-0.250
XNMG 090408-F3P	10.14	9.52	4.76	0.80	●	●	●	●	0.90-3.50	0.080-0.250

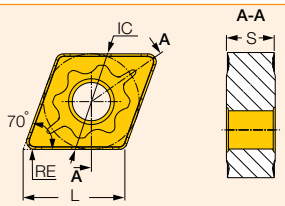
NEOTURN ISOTURNING

XNMG-M3M

Double-Sided 70° Rhombic Inserts for Machining Stainless and Low Carbon Steel

MAXVALUE MINIMUM COST MAXIMUM OUTPUT







Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC6025	IC6015	IC806	IC807	IC706	Recommended Machining Data a_p (mm)	f (mm/rev)
XNMG 090404-M3M	10.14	9.52	4.76	0.40	●	●	●	●	●	●	0.50-3.00	0.100-0.400
XNMG 090408-M3M	10.14	9.52	4.76	0.80	●	●	●	●	●	●	0.80-3.00	0.100-0.400

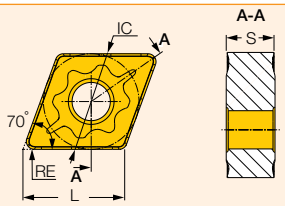
NEOTURN ISOTURNING

XNMG-M3P

Double-Sided 70° Rhombic Inserts for Medium Machining Conditions on Steel

MAXVALUE MINIMUM COST MAXIMUM OUTPUT







Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC8250	IC8150	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
XNMG 090404-M3P	10.14	9.52	4.76	0.40	●	●	●	●	0.50-3.00	0.100-0.350
XNMG 090408-M3P	10.14	9.52	4.76	0.80	●	●	●	●	0.80-3.00	0.100-0.350

MAXVALUE MINIMUM COST MAXIMUM OUTPUT



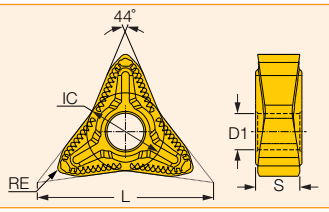
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

QUICKTURN

Q6-MNMG-M3P-SL

High Feed Insert with Six Reinforced Cutting Edges and Negative Flank for Roughing Applications





Designation	Dimensions L	D1	IC	S	RE	Tough ↔ Hard IC8250	IC8150	IC807	Recommended Machining Data a_p (Forward machining) (mm)	a_p (Backward machining) (mm)	Feed turning (Forward machining)	Feed turning (Backward machining)
Q6-MNMG120608-M3P-SL	25.10	5.15	11.05	6.30	0.80	●	●	●	0.50-3.50	0.50-2.20	0.200-0.600	0.300-1.200

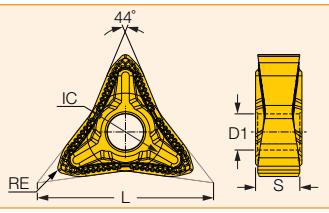
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

QUICKTURN

Q6-MNMG-M3M-SL

High Feed Insert with Six Reinforced Cutting Edges and Negative Flank for Roughing Applications





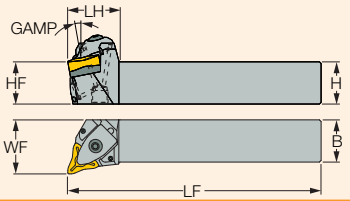
Designation	Dimensions L	D1	IC	S	RE	Tough ↔ Hard IC6025	IC6015	IC807	Recommended Machining Data a_p (Forward machining) (mm)	a_p (Backward machining) (mm)	Feed turning (Forward machining)	Feed turning (Backward machining)
Q6-MNMG120608-M3M-SL	25.10	5.15	11.05	6.30	0.80	●	●	●	0.50-3.50	0.50-2.20	0.200-0.600	0.300-1.000

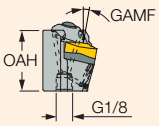
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

QUICKTURN

Q6-DMXNR/L-SL-JHP

Safety Lock Tools with High Feed Negative Inserts for Roughing Applications





Right-hand tool shown

Designation	H	OAH	HF	B	LF	LH	WF	GAMP(1)	GAMF(2)	MIID(3)
Q6-DMXNR/L 2525M-12-SL-JHP	25.0	36.00	25.00	25.0	150.00	31.0	32.00	7.8	7.8	Q6-MNMG120608-M3#-SL
Q6-DMXNR/L 3232P-12-SL-JHP	32.0	43.00	32.00	32.0	170.00	31.0	39.00	7.8	7.8	Q6-MNMG120608-M3#-SL

(1) Rake angle axial
(2) Rake angle radial
(3) Master insert identification

Spare Parts

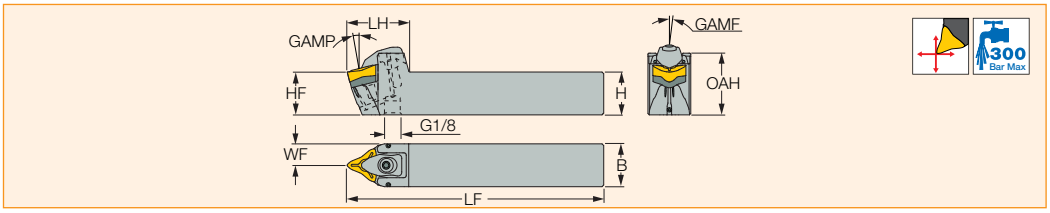
Designation								
Q6-DMXNR/L-SL-JHP	L-KEY TORX PLUS IP20 62MM	Q6-TMN 1206-SL	SR M2.5X2.5 DIN913 TL360	HW 3.0	SR 10513105-L10.5	DSP 4	DLS 4	DLM 4

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

QUICKTURN

Q6-DMXNN-SL-JHP

Safety Lock Tools with High Feed Negative Inserts for Roughing Applications



Designation	H	OAH	HF	B	LF	LH	WF	GAMP(1)	GAMF(2)	MIID(3)
Q6-DMXNN 2525M-12-SL-JHP	25.0	36.00	25.00	25.0	150.00	37.0	12.50	11.0	0.0	Q6-MNMG1206#-M3#-SL
Q6-DMXNN 3232P-12-SL-JHP	32.0	43.00	32.00	32.0	170.00	37.0	16.00	11.0	0.0	Q6-MNMG1206#-M3#-SL

(1) Rake angle axial
(2) Rake angle radial
(3) Master insert identification

Spare Parts

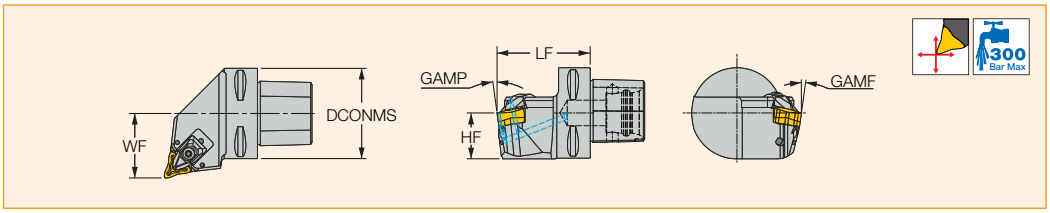
Designation								
Q6-DMXNN-SL-JHP	L-KEY TORX PLUS IP20 62MM	SR 10513105-L10.5	Q6-TMN 1206-SL	HW 3.0	DSP 4	DLS 4	DLM 4	SR M2.5X2.5 DIN913 TL360

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

QUICKTURN

C#-Q6-DMXNR/L-SL

Safety Lock Tools with CAMFIX Shanks for High Feed Negative Inserts for Roughing Applications



Designation	LF	h1	WF	DCONMS	GAMP(1)	GAMF(2)	MIID(3)
C4 Q6-DMXNR/L-27050-12-SL	50.00	26.0	27.00	40.00	7.8	7.8	Q6-MNMG1206#-M3#-SL
C5 Q6-DMXNR/L-35060-12-SL	60.00	25.5	35.00	50.00	7.8	7.8	Q6-MNMG1206#-M3#-SL
C6 Q6-DMXNR/L-45065-12-SL	65.00	32.5	45.00	63.00	7.8	7.8	Q6-MNMG1206#-M3#-SL
C8 Q6-DMXNR/L-55080-12-SL	80.00	41.0	55.00	80.00	7.8	7.8	Q6-MNMG1206#-M3#-SL

(1) Rake angle axial
(2) Rake angle radial
(3) Master insert identification

Spare Parts

Designation								
C4 Q6-DMXNR/L-27050-12-SL	DLM 4	DLS 4	DSP 4	HW 3.0	Q6-TMN 1206-SL	SR 10513105-L10.5	SR M5X5 DIN913 TL360	SR M2.5X2.5 DIN913 TL360	L-KEY TORX PLUS IP20 62MM
C5 Q6-DMXNR/L-35060-12-SL	DLM 4	DLS 4	DSP 4	HW 3.0	Q6-TMN 1206-SL	SR 10513105-L10.5	SR M5X5 DIN913 TL360	SR M2.5X2.5 DIN913 TL360	L-KEY TORX PLUS IP20 62MM
C6 Q6-DMXNR/L-45065-12-SL	DLM 4	DLS 4	DSP 4	HW 3.0	Q6-TMN 1206-SL	SR 10513105-L10.5	SR M5X5 DIN913 TL360	SR M2.5X2.5 DIN913 TL360	L-KEY TORX PLUS IP20 62MM
C8 Q6-DMXNR/L-55080-12-SL	DLM 4	DLS 4	DSP 4	HW 3.0	Q6-TMN 1206-SL	SR 10513105-L10.5	SR M5X5 DIN913 TL360	SR M2.5X2.5 DIN913 TL360	L-KEY TORX PLUS IP20 62MM*

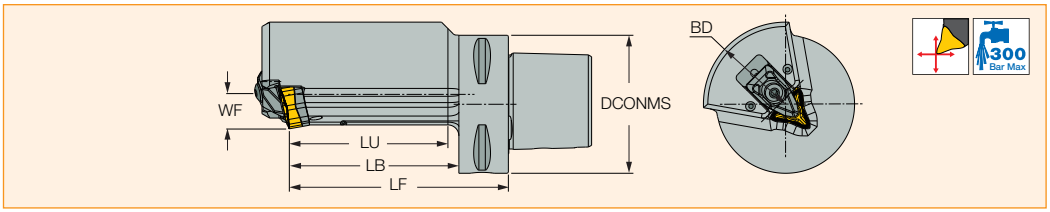
* Optional, to be ordered separately

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

QUICKTURN

C#-Q6-DMXNN-SL-Y

Y-Axis Turning Tools with a Safety Lock Clamping Mechanism for Negative Inserts, Intended for Roughing and Medium App.



Designation	BD	LF	LB	LU	WF	DCONMS	MIID(1)
C4 Q6-DMXNN-12-SL-H065-Y	40.20	65.00	44.40	34.40	11.20	40.00	Q6-MNMG1206
C5 Q6-DMXNN-12-SL-H080-Y	50.20	80.00	59.40	44.40	11.20	50.00	Q6-MNMG1206
C6 Q6-DMXNN-12-SL-H100-Y	63.20	100.00	77.40	62.40	11.20	63.00	Q6-MNMG1206
C8 Q6-DMXNN-12-SL-H100-Y	80.00	100.00	70.00	55.00	11.20	80.00	Q6-MNMG1206

(1) Master insert identification

Spare Parts

Designation									
C#-Q6-DMXNN-SL-Y	L-KEY TORX PLUS IP20 62MM	SR 10513105-L10.5	Q6-TMN 1206-SL	HW 3.0	DSP 4	DLS 4	DLM 4	SR M4X4 DIN913 TL360	SR M2.5X2.5 DIN913 TL360

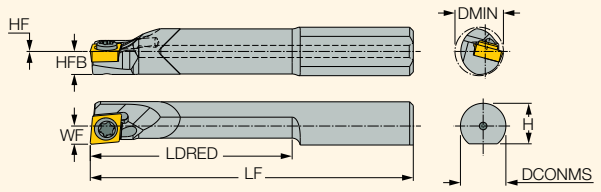
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

PICCOINDEX
INDEXABLE INSERTS

PICIN-SCLCR/L

Solid Carbide PICCO Tools
Carrying 80° Rhombic Inserts





Designation	DCONMS	DMIN	LDRED	LF	WF	H	HF	HFB	MIID[1]
PICIN E05-T20-SCLCR/L-03	5.00	4.50	20.0	35.00	1.85	4.5	0.00	2.1	CCGT 03X101-F1P
PICIN E05-T30-SCLCR/L-03	5.00	4.50	30.0	45.00	1.85	4.5	0.00	2.1	CCGT 03X101-F1P
PICIN E06-T25-SCLCR/L-03	6.00	6.00	25.0	40.00	2.25	5.4	0.00	2.9	CCGT 03X101-F1P
PICIN E06-T35-SCLCR/L-03	6.00	6.00	35.0	50.00	2.25	5.4	0.00	2.9	CCGT 03X101-F1P

(1) Master insert identification

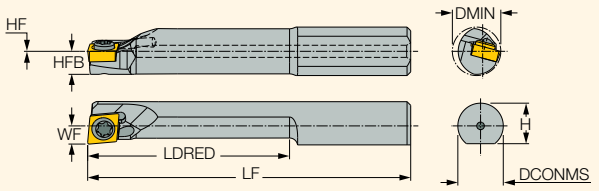
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

PICCOINDEX
INDEXABLE INSERTS

PICIN-A-SCLCR/L

PICCO Tools on which 80°
Rhombic Inserts are Mounted





Designation	DCONMS	DMIN	LDRED	LF	WF	H	HF	HFB	MIID[1]
PICIN A05-T10-SCLCR/L-03	5.00	4.50	10.0	25.00	1.85	4.5	0.00	2.1	CCGT 03X101-F1P
PICIN A05-T20-SCLCR/L-03	5.00	4.50	20.0	35.00	1.85	4.5	0.00	2.1	CCGT 03X101-F1P
PICIN A06-T15-SCLCR/L-03	6.00	6.00	15.0	30.00	2.25	5.4	0.00	2.9	CCGT 03X101-F1P
PICIN A06-T25-SCLCR/L-03	6.00	6.00	25.0	40.00	2.25	5.4	0.00	2.9	CCGT 03X101-F1P

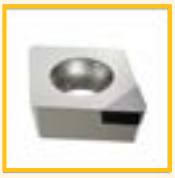
(1) Master insert identification

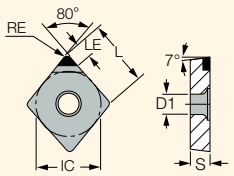
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

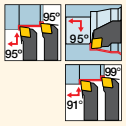
ISOTURN

CCGW/CCMT (CBN)

80° Rhombic Inserts with
a Single CBN Top Corner
Tip and 7° Clearance for
Machining Hardened Steel







Designation	Dimensions L	IC	S	RE	LE	D1	Tough ↔ Hard IB05H	IB10H	IB55	Recommended Machining Data a_p (mm)	f (mm/rev)
CCGW 03X102TF-MT	3.63	3.57	1.39	0.20	2.0	1.90	●	●		0.05-0.50	0.050-0.200
CCGW 03X104TF-MT	3.63	3.57	1.39	0.40	2.3	1.90	●	●		0.05-0.50	0.050-0.200
CCGW 04T102TF-MT	4.44	4.37	1.79	0.20	2.0	2.30	●	●		0.05-0.50	0.050-0.200
CCGW 04T104TF-MT	4.44	4.37	1.79	0.40	2.3	2.30	●	●		0.05-0.50	0.050-0.200
CCMT 060202T	6.30	6.35	2.38	0.20	2.6	2.80			●	0.05-0.50	0.050-0.200
CCMT 060204T	6.30	6.35	2.38	0.40	2.7	2.80			●	0.05-0.50	0.050-0.200
CCMT 09T304T	9.70	9.52	3.97	0.40	2.9	4.40			●	0.05-0.50	0.050-0.200
CCMT 09T308T	9.70	9.52	3.97	0.80	3.6	4.40			●	0.05-0.50	0.050-0.200

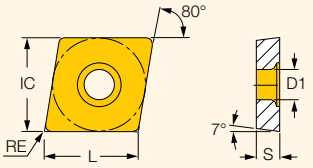
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

ISOTURN

CCGT-F1P

80° Rhombic Inserts with a
Positive Flank for Very Low Finish
Turning Conditions on Steel







Designation	Dimensions L	IC	S	RE	D1	IC908	Recommended Machining Data a_p (mm)	f (mm/rev)
CCGT 03X101-F1P	3.60	3.57	1.39	0.10	1.90	●	0.10-0.50	0.010-0.050
CCGT 03X102-F1P	3.60	3.57	1.39	0.20	1.90	●	0.10-0.50	0.020-0.100
CCGT 03X104-F1P	3.60	3.57	1.39	0.40	1.90	●	0.10-0.50	0.050-0.150
CCGT 04T101-F1P	4.40	4.37	1.79	0.10	2.30	●	0.10-0.50	0.010-0.050
CCGT 04T102-F1P	4.40	4.37	1.79	0.20	2.30	●	0.10-0.50	0.020-0.100
CCGT 04T104-F1P	4.40	4.37	1.79	0.40	2.30	●	0.10-0.50	0.050-0.150

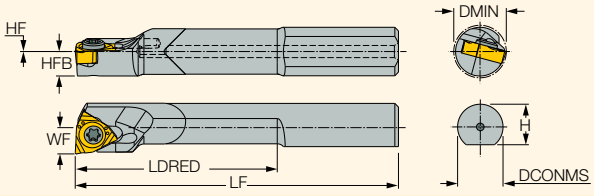
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

PICCOINDEX
INDEXABLE INSERTS

PICIN-SWUBR/L

Solid Carbide PICCO Tools
Carrying Small
WBMT/WBGT Trigon Inserts





Designation	DCONMS	DMIN	LDRED	LF	WF	H	HF	HFB	MIID[1]
PICIN E06-T25-SWUBL-06	6.00	6.50	25.0	40.00	3.25	5.4	0.00	3.0	WBMT 060101R
PICIN E06-T25-SWUBR-06	6.00	6.50	25.0	40.00	3.25	5.4	0.00	3.0	WBMT 060101L
PICIN E06-T35-SWUBL-06	6.00	6.50	35.0	50.00	3.25	5.4	0.00	3.0	WBMT 060101R
PICIN E06-T35-SWUBR-06	6.00	6.50	35.0	50.00	3.25	5.4	0.00	3.0	WBMT 060101L

- Use right-hand WBMT 06...R inserts on left-hand tools and left-hand WBMT 06...L inserts on right-hand tools

[1] Master insert identification

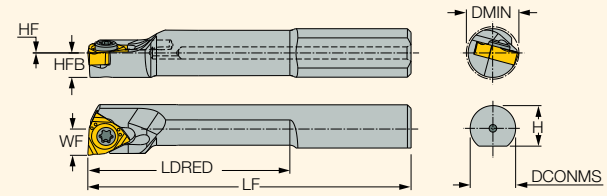
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

PICCOINDEX
INDEXABLE INSERTS

PICIN-A-SWUBR/L

PICCO Tools on which
Small WBMT/WBGT Trigon
Inserts are Mounted





Designation	DCONMS	DMIN	LDRED	LF	WF	H	HF	HFB	MIID[1]
PICIN A06-T15-SWUBL-06	6.00	6.50	15.0	30.00	3.25	5.4	0.00	3.0	WBMT 060101R
PICIN A06-T15-SWUBR-06	6.00	6.50	15.0	30.00	3.25	5.4	0.00	3.0	WBMT 060101L
PICIN A06-T25-SWUBL-06	6.00	6.50	25.0	40.00	3.25	5.4	0.00	3.0	WBMT 060101R
PICIN A06-T25-SWUBR-06	6.00	6.50	25.0	40.00	3.25	5.4	0.00	3.0	WBMT 060101L

- Use right-hand WBMT 06...R inserts on left-hand tools and left-hand WBMT 06...L inserts on right-hand tools

[1] Master insert identification

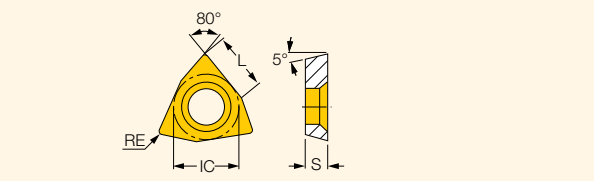
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

ISOTURN

WBMT

Trigon Inserts with a 5°
Positive Flank Ground
Chipformer for Finish Turning





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC354	IC350	IC908	IC30N	IC530N	IC20N	IC520N	Recommended Machining Data a_p (mm)	f (mm/rev)
WBMT 060101R/L	2.18	3.97	1.59	0.10				•					0.40-2.00	0.100-0.150
WBMT 060102L	2.18	3.97	1.59	0.20	•	•	•		•	•	•	•	0.40-2.00	0.100-0.150
WBMT 060102R	2.18	3.97	1.59	0.20		•	•			•		•	0.40-2.00	0.100-0.150

- WBMT 06...R right-hand inserts used on left-hand tools and WBMT 06...L left-hand inserts used on right-hand tools

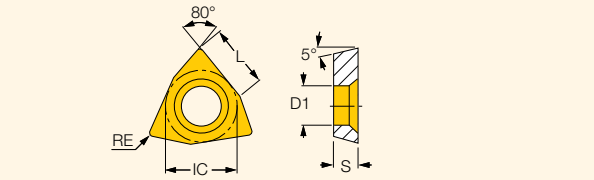
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

ISOTURN

WBGT

Trigon Inserts with a 5°
Positive Flank Ground
Chipformer for Finish Turning



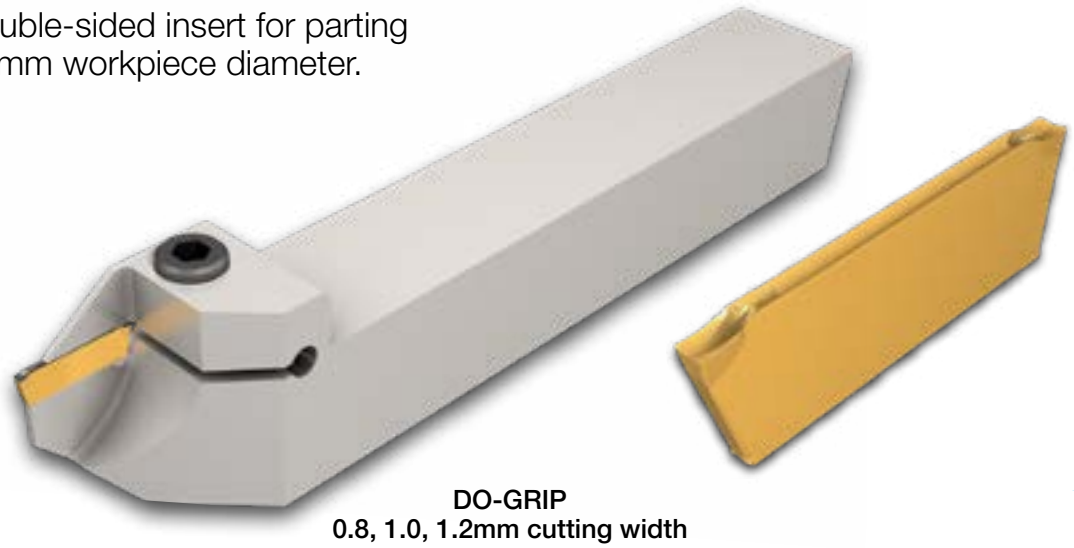


Designation	Dimensions L	IC	S	RE	D1	Tough ↔ Hard IC830	IC908	IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
WBGT 060102L	2.18	3.97	1.59	0.20	2.24	•	•	•	•	0.10-1.00	0.050-0.100

MAXVALUE

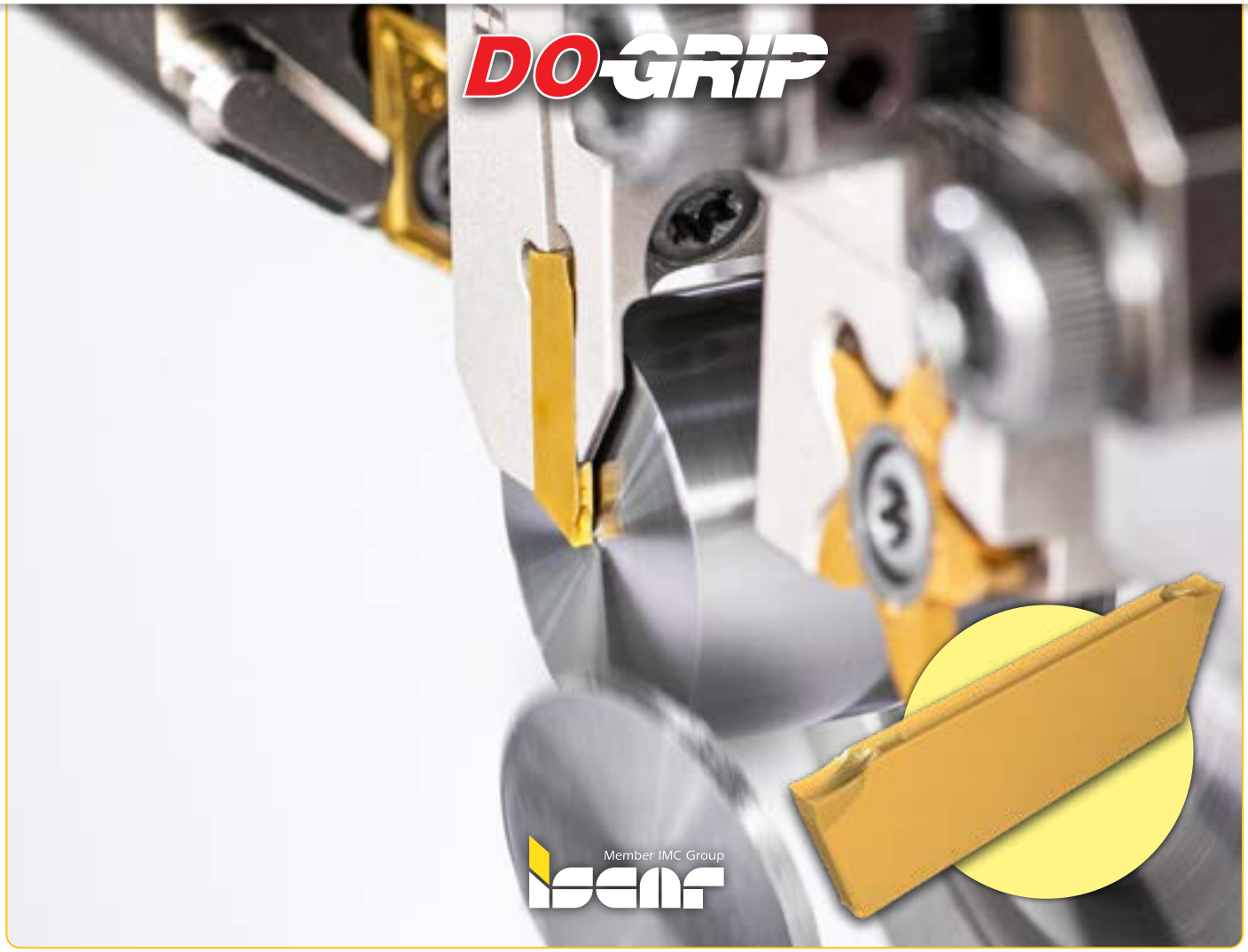
MINIMUM COST MAXIMUM OUTPUT

Narrow double-sided insert for parting up to a 22mm workpiece diameter.



DO-GRIP
0.8, 1.0, 1.2mm cutting width

The double-sided insert is a **cost-effective solution for parting up to 22mm** on Swiss-Type machines, with its narrow cutting widths **maximizing raw material savings.**



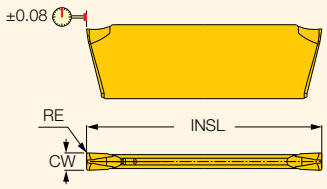
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

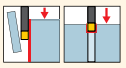
DO-GRIP

DGN-J/JS-D

Double-Sided Inserts for Parting and Grooving Soft Materials, Parting Tubes, Small Diameters and Thin-Walled Parts







Designation	Dimensions						Tough ↔ Hard			Recommended Machining Data
	CW	RE	CWTOL(1)	RETOL(2)	CUTDIA	INSL	IC1030	IC1010	IC1508	f groove (mm/rev)
DGN 0801J-D12	0.80	0.10	0.030	0.020	12.0	11.10	●	●		0.02-0.06
DGN 1001J-D22	1.00	0.10	0.030	0.020	22.0	13.50	●	●		0.03-0.08
DGN 1000JS-D22	1.00	0.00	0.030	0.020	22.0	13.50		●	●	0.03-0.08
DGN 1201J-D22	1.20	0.10	0.030	0.020	22.0	13.50	●	●		0.03-0.10

(1) Cutting width tolerance (+/-)
(2) Corner radius tolerance (+/-)

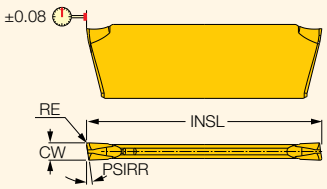
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

DO-GRIP

DGR/L-J/JS-D

Double-Sided Inserts for Parting Soft Materials, Parting Tubes, Small Diameters and Thin-Walled Parts







Designation	Dimensions						Tough ↔ Hard			Recommended Machining Data
	CW	RE	CUTDIA	INSL	PSIRL(1)	PSIRR(2)	IC1030	IC1010	IC1508	f groove (mm/rev)
DGL 0801J-6D-D12	0.80	0.10	12.0	11.10	6.0	-	●	●		0.02-0.05
DGR 0801J-6D-D12	0.80	0.10	12.0	11.10	-	6.0	●	●		0.02-0.05
DGL 1001J-8D-D22	1.00	0.10	22.0	13.50	8.0	-	●	●		0.02-0.06
DGR 1001J-8D-D22	1.00	0.10	22.0	13.50	-	8.0	●	●		0.02-0.06
DGL 1000JS-15D-D22	1.00	0.00	22.0	13.50	15.0	-		●	●	0.02-0.06
DGR 1000JS-15D-D22	1.00	0.00	22.0	13.50	-	15.0		●	●	0.02-0.06
DGL 1201J-8D-D22	1.20	0.10	22.0	13.50	8.0	-	●	●		0.03-0.08
DGR 1201J-8D-D22	1.20	0.10	22.0	13.50	-	8.0	●	●		0.03-0.08

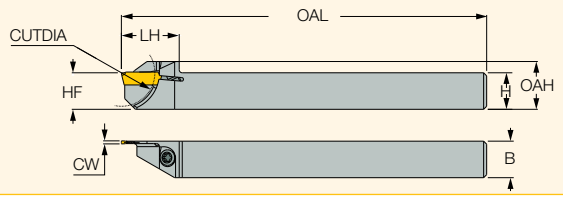
(1) Lead angle type for minimal burr size (left)
(2) Lead angle type for minimal burr size (right)

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

DO-GRIP

DGTR/L-B-D-SH (NARROW CUT)

Parting and Grooving
Short Head Tools for CNC
and Swiss Automatics



Left hand tool shown

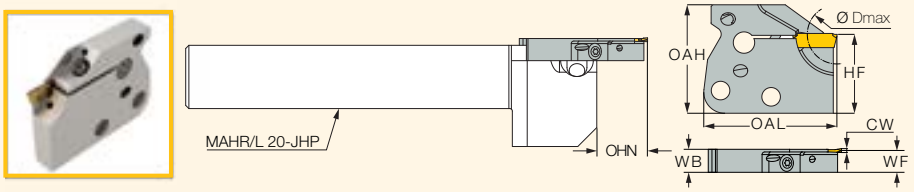
Designation	CW	H	B	HF	HBL	LH	CUTDIA	OAH	OAL
DGTR/L 0810B-0.8-D12SH	0.80	8.0	10.0	8.00	16.1	15.6	12.0	13.70	120.00
DGTR/L 10B-0.8-D12SH	0.80	10.0	10.0	10.00	-	15.6	12.0	13.70	120.00
DGTR/L 12B-0.8-D12SH	0.80	12.0	12.0	12.00	-	15.6	12.0	15.70	120.00
DGTR/L 16B-0.8-D12SH	0.80	16.0	16.0	16.00	-	15.6	12.0	15.70	120.00
DGTR/L 0810B-1.0-D22SH	1.00	8.0	10.0	8.00	20.5	20.0	22.0	15.00	120.00
DGTR/L 10B-1.0-D22SH	1.00	10.0	10.0	10.00	-	20.0	22.0	15.70	120.00
DGTR/L 12B-1.0-D22SH	1.00	12.0	12.0	12.00	-	20.0	22.0	15.70	120.00
DGTR/L 16B-1.0-D22SH	1.00	16.0	16.0	16.00	-	20.0	22.0	15.70	120.00
DGTR/L 0810B-1.2-D22SH	1.20	8.0	10.0	8.00	20.5	20.0	22.0	15.00	120.00
DGTR/L 10B-1.2-D22SH	1.20	10.0	10.0	10.00	-	20.0	22.0	15.70	120.00
DGTR/L 12B-1.2-D22SH	1.20	12.0	12.0	12.00	-	20.0	22.0	15.70	120.00
DGTR/L 16B-1.2-D22SH	1.20	16.0	16.0	16.00	-	20.0	22.0	15.70	120.00

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

MODULAR-GRIP

DGPAD-D12/22-JHP

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



Designation	CW	CUTDIA(1)	OHN(2)	WF	WB	OAL	OAH	HF	MIID(3)
DGPAD 0.8R/L-D12-JHP	0.80	12.0	16.0	6.65	7.00	40.50	31.00	24.00	DGN 0801
DGPAD 1.0R/L-D22-JHP	1.00	22.0	16.0	6.60	7.00	40.50	33.00	24.00	DGN 1001
DGPAD 1.2R/L-D22-JHP	1.20	22.0	16.0	6.50	7.00	40.50	33.00	24.00	DGN 1201

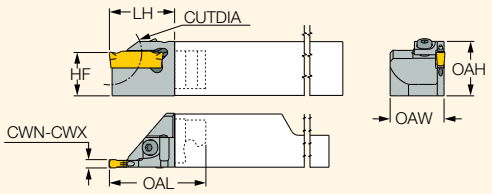
(1) Maximum workpiece diameter for grooving operation
(2) Minimum overhang
(3) Master insert identification

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

NEOSWISS

NQCH-DGTR/L-D22-SH-JHP

Screw Lock JET-CUT Modular
Heads Carrying DO-GRIP
Double-Edged Parting Inserts
for Swiss-Type Machines



Right hand tool shown

Designation	CWN(2)	CWX(3)	HF	OAW	OAH	LH	OAL	CUTDIA	MIID(4)
NQCH12-DGTR/L-1D22SH-JHP	1.00	1.00	12.10	20.00	16.20	20.0	28.80	22.0	DGN 1
NQCH12R-DGTL-1D22SH-JHP (1)	1.00	1.00	12.10	20.00	16.20	20.0	28.80	22.0	DGN 1
NQCH16-DGTR/L-1D22SH-JHP	1.00	1.00	16.10	20.00	20.20	20.0	28.80	22.0	DGN 1
NQCH16R-DGTL-1D22SH-JHP (1)	1.00	1.00	16.10	20.00	20.20	20.0	28.80	22.0	DGN 1
NQCH16-DGTR/L-1.2D22SH-JHP	1.20	1.20	16.10	20.00	20.20	20.0	28.80	22.0	DGN 1.2
NQCH16R-DGTL-1.2D22SH-JHP (1)	1.20	1.20	16.10	20.00	20.20	20.0	28.80	22.0	DGN 1.2

- Use only RH Shank with RH Head and LH Shank with LH Head exept NQCH12R/16R... heads.

(1) The head is dedicated for the right hand machines and to be mounted on the right hand holder only.
(2) Minimum cutting width
(3) Maximum cutting width
(4) Master insert identification

MAXVALUE

MINIMUM COST MAXIMUM OUTPUT

Extra long insert for parting
up to a 60mm workpiece diameter.



DO-GRIP-XL
2mm cutting width

The double-sided insert offers **a cost-effective solution for high-performance parting of larger diameters up to 60mm, with narrow cutting widths that maximize raw material savings.**



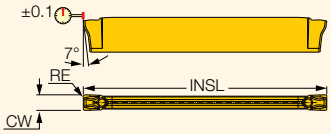
DO-GRIP XL

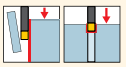
DGN-C-XL

Extra Long Parting and Grooving Inserts for Parting Bars Up to 65 mm Diameters, Hard Materials and Tough Applications

MAXVALUE MINIMUM COST MAXIMUM OUTPUT







Designation	Dimensions CW	RE	CWTOL(1)	RETOL(2)	CDX	INSL	Tough ↔ Hard IC830	IC808	IC5400	Recommended Machining Data f groove (mm/rev)
DGN 2002C-XL	2.05	0.20	0.040	0.030	30.00	32.00	●	●	●	0.05-0.16

(1) Cutting width tolerance (+/-)
(2) Corner radius tolerance (+/-)

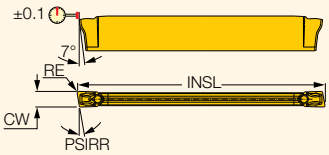
DO-GRIP XL

DGR/L-C-XL

Extra Long Double-Sided Inserts for Parting Bars, Hard Materials and Tough Applications

MAXVALUE MINIMUM COST MAXIMUM OUTPUT







Right-hand shown

Designation	Dimensions CW	RE	CDX	PSIRL	PSIRR	INSL	Tough ↔ Hard IC830	IC808	Recommended Machining Data f groove (mm/rev)
DGL 2002C-6D-XL	2.00	0.20	30.00	6.0	-	32.00	●	●	0.05-0.12
DGR 2002C-6D-XL	2.00	0.20	30.00	-	6.0	32.00	●	●	0.05-0.12

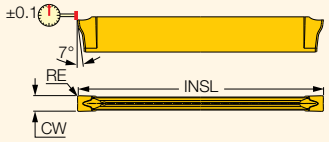
DO-GRIP XL

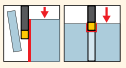
DGN-J-XL

Extra Long Inserts for Parting and Grooving Soft Materials, Parting Tubes, Small Diameters and Thin-Walled Parts

MAXVALUE MINIMUM COST MAXIMUM OUTPUT







Designation	Dimensions CW	RE	CWTOL(1)	RETOL(2)	CDX	INSL	Tough ↔ Hard IC830	IC808	IC5400	Recommended Machining Data f groove (mm/rev)
DGN 2002J-XL	2.05	0.20	0.040	0.030	30.00	32.00	●	●	●	0.04-0.14

(1) Cutting width tolerance (+/-)
(2) Corner radius tolerance (+/-)

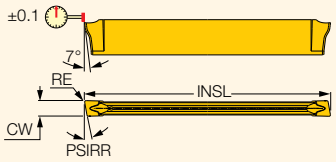
DO-GRIP XL

DGR/L-J-XL

Extra Long Double-Sided Inserts for Parting Soft Materials, Tubes, Small Diameters and Thin-Walled Parts

MAXVALUE MINIMUM COST MAXIMUM OUTPUT







Right-hand shown

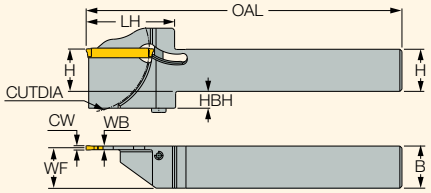
Designation	Dimensions CW	RE	CDX	PSIRL	PSIRR	INSL	Tough ↔ Hard IC830	IC808	Recommended Machining Data f groove (mm/rev)
DGL 2002J-6D-XL	2.00	0.20	30.00	6.0	-	32.00	●	●	0.04-0.10
DGR 2002J-6D-XL	2.00	0.20	30.00	-	6.0	32.00	●	●	0.04-0.10

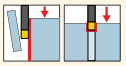
DO-GRIP XL

DGTR/L-XL

Integral Shank Reinforced Parting and Grooving Tools for Parting Up to 65 mm Diameters

MAXVALUE MINIMUM COST MAXIMUM OUTPUT





Left-hand tool shown

Designation	CW	CUTDIA[1]	H	B	WB	OAL	LH	WF	HBH
DGTR/L 20B-2XL-D60	2.00	60.0	20.0	20.0	1.74	150.00	43.2	19.10	8.0
DGTR/L 25B-2XL-D60	2.00	60.0	25.0	25.0	1.74	150.00	43.2	24.10	3.0

[1] Maximum workpiece diameter for grooving operation

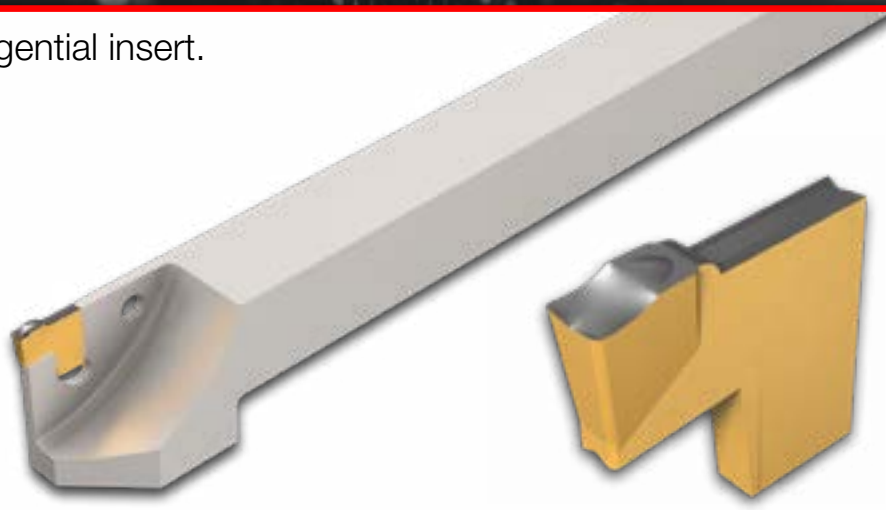
MAXVALUE MINIMUM COST MAXIMUM OUTPUT



MAXVALUE

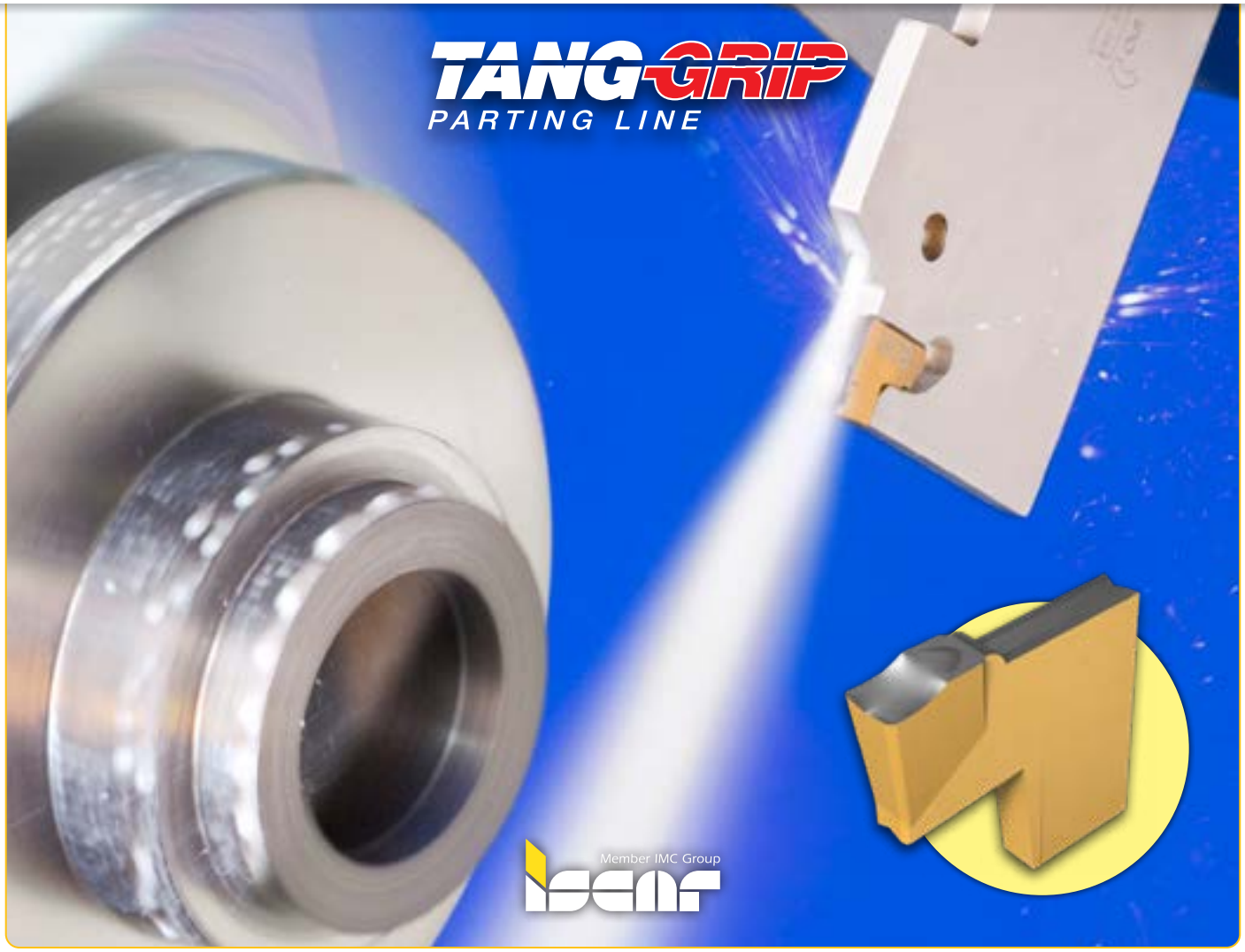
MINIMUM COST MAXIMUM OUTPUT

Narrow tangential insert.



TANG-GRIP
1.4-2.0mm cutting width

With a durable pocket design and ultra-rigid clamping, the tool delivers **precise cuts, longer tool life, and maximum efficiency in parting, grooving, and slitting applications.**



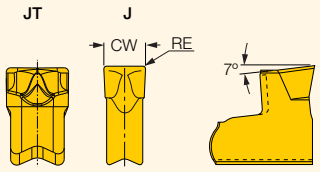
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

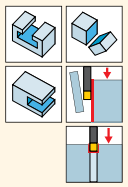
TANG-GRIP PARTING LINE

TAG N-J/JS/JT

Single-Ended Inserts for Parting, Grooving and Slitting Soft Materials







Designation	Dimensions CW	RE	CWTOL[2]	RETOL[3]	Tough ↔ Hard IC830	IC928	IC1030	IC1010	IC808	IC908	IC5400	IC20	IC807	Recommended Machining Data f groove (mm/rev)
TAG N1.4J	1.40	0.16	0.040	0.030	●				●				●	0.03-0.10
TAG N1.6J	1.60	0.16	0.040	0.030	●				●					0.03-0.12
TAG N2JS [1]	2.00	0.02	0.040	0.020	●				●					0.03-0.08
TAG N2J	2.00	0.20	0.040	0.040	●		●	●	●		●	●		0.04-0.12
TAG N2JT	2.00	0.20	0.040	0.040	●	●		●	●	●	●			0.04-0.14

- JT chipformer has the basic positive configuration of the J-type and a reinforced negative front edge; most suitable for soft materials at low to medium feeds.

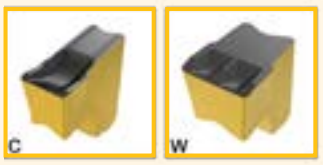
[1] Sharp corners cannot be used on TGSF slitting cutters
[2] Cutting width tolerance (+/-)
[3] Corner radius tolerance (+/-)

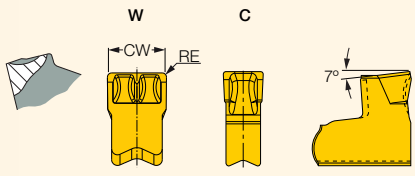
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

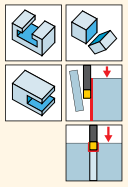
TANG-GRIP PARTING LINE

TAG N-C/W/M

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







Designation	Dimensions CW	CWTOL[1]	RE	Tough ↔ Hard IC830	IC1030	IC1010	IC808	IC30N	IC5400	IC20	IC807	Recommended Machining Data f groove (mm/rev)
TAG N1.4C	1.40	0.040	0.16								●	0.04-0.10
TAG N1.6C	1.60	0.040	0.16	●			●					0.04-0.14
TAG N2C	2.00	0.040	0.20	●	●	●	●	●	●	●		0.05-0.16

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

[1] Cutting width tolerance (+/-)

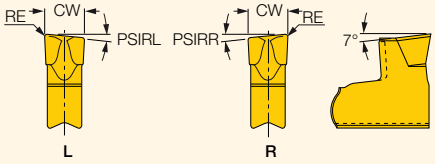
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

TANG-GRIP PARTING LINE

TAG R/L-J/JS

TANG-GRIP Inserts for Parting Soft Materials, Tubes, Small Diameters and Thin-Walled Parts





Designation	Dimensions CW	RE	PSIRL	PSIRR	Tough ↔ Hard IC830	IC808	IC807	Recommended Machining Data f groove (mm/rev)
TAG L1.4J-8D	1.40	0.16	8.0	-	●	●	●	0.03-0.08
TAG R1.4J-8D	1.40	0.16	-	8.0	●	●	●	0.03-0.08
TAG L1.4JS-10D (1)	1.40	0.02	10.0	-	●	●	●	0.02-0.06
TAG R1.4JS-10D (1)	1.40	0.02	-	10.0	●	●	●	0.02-0.06
TAG L2J-6D	2.00	0.20	6.0	-	●	●		0.03-0.10
TAG R2J-6D	2.00	0.20	-	6.0	●	●		0.03-0.10
TAG L2JS-6D (1)	2.00	0.02	6.0	-	●	●		0.02-0.08
TAG R2JS-6D (1)	2.00	0.02	-	6.0	●	●		0.02-0.08
TAG L2J-15D	2.00	0.20	15.0	-	●	●		0.03-0.08
TAG R2J-15D	2.00	0.20	-	15.0	●	●		0.03-0.08
TAG L2JS-15D (1)	2.00	0.02	15.0	-	●	●		0.02-0.06
TAG R2JS-15D (1)	2.00	0.02	-	15.0	●	●		0.02-0.06

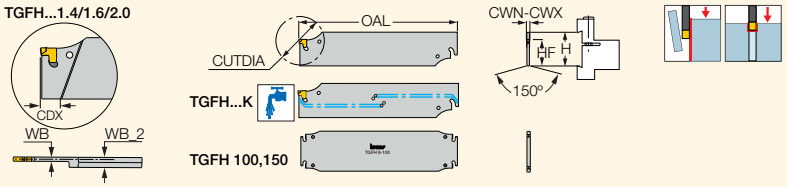
(1) Sharp corners cannot be used on TGSF slitting cutters

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

SUMO-GRIP HEAVY DUTY LINE

TGFH/R/L

Blades with a Tangentially Oriented Pocket Carrying TANG-GRIP Single-Ended Inserts for Parting and Grooving



Designation	H	CWN(1)	CWX(2)	WB	WB_2	OAL	CDX	HF	CUTDIA(3)	CSP(4)	MIID	
TGFH 19-1.4	19.0	1.40	1.40	1.10	2.5	86.00	9.60	15.7	30.0	0	TAG 1.4	ETG 1.4/1.6*
TGFH 19-1.6	19.0	1.60	1.60	1.30	1.6	86.00	11.00	15.7	32.0	0	TAG 1.6	ETG 1.4/1.6*
TGFH 19-2	19.0	1.80	2.40	-	1.7	86.00	-	15.7	38.0	0	TAG 2	ETG 2*
TGFH 26-1.4	26.0	1.40	1.40	1.10	2.5	110.00	8.30	21.4	29.0	0	TAG 1.4	ETG 1.4/1.6*
TGFH 26-1.6	26.0	1.60	1.60	1.30	1.6	110.00	10.00	21.4	35.0	0	TAG 1.6	ETG 1.4/1.6*
TGFH 26-2	26.0	1.80	2.40	-	1.7	110.00	-	21.4	50.0	0	TAG 2	ETG 2*
TGFH 32-1.4	32.0	1.40	1.40	1.10	2.5	150.00	7.10	24.8	29.0	0	TAG 1.4	ETG 1.4/1.6*
TGFH 32-1.6	32.0	1.60	1.60	1.30	1.6	150.00	10.00	24.8	38.0	0	TAG 1.6	ETG 1.4/1.6*
TGFH 32-2	32.0	1.80	2.40	1.70	2.5	150.00	-	24.8	50.0	0	TAG 2	ETG 2*

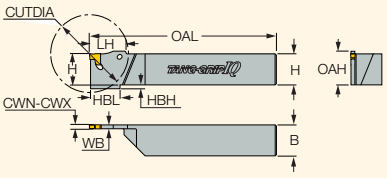
(1) Minimum cutting width
(2) Maximum cutting width
(3) Maximum workpiece diameter for grooving operation
(4) 0 - Without coolant supply, 1 - With coolant supply
* Optional, to be ordered separately

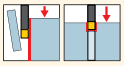
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

TANG-GRIP IQ 350 LINE

TGTR/L-IQ

Integral Shank TANG-GRIP Toolholders for Parting and Grooving





Left hand tool shown

Designation	CWN(1)	CWX(2)	H	B	WB	OAL	OAH	LH	HBL	HBH	CUTDIA(3)	Insert	
TGTR/L 1010-1.4-IQ	1.40	1.45	10.0	10.0	1.05	140.00	15.0	-	15.50	5.0	20.0	TAG 1.4	ETG 1.4/1.6*
TGTR/L 1212-1.4-IQ	1.40	1.45	12.0	12.0	1.05	140.00	12.0	-	16.00	3.0	30.0	TAG 1.4	ETG 1.4/1.6*
TGTR/L 1616-1.4-IQ	1.40	1.45	16.0	16.0	1.05	140.00	16.0	-	16.00	-	30.0	TAG 1.4	ETG 1.4/1.6*
TGTR/L 2020-1.4-IQ	1.40	1.45	20.0	20.0	1.05	140.00	20.0	-	16.00	-	30.0	TAG 1.4	ETG 1.4/1.6*
TGTR/L 1010-1.6-IQ	1.60	1.64	10.0	10.0	1.30	120.00	-	-	16.00	5.0	28.0	TAG 1.6	ETG 1.4/1.6*
TGTR/L 1212-1.6-IQ	1.60	1.64	12.0	12.0	1.30	120.00	-	-	16.00	3.0	32.0	TAG 1.6	ETG 1.4/1.6*
TGTR/L 1616-1.6-IQ	1.60	1.64	16.0	16.0	1.30	120.00	-	-	16.00	-	35.0	TAG 1.6	ETG 1.4/1.6*
TGTR/L 1010-2-IQ	1.80	2.40	10.0	10.0	1.65	150.00	15.0	-	15.50	5.0	28.0	TAG 2	ETG 2*
TGTR/L 1212-2-IQ	1.80	2.40	12.0	12.0	1.65	150.00	15.0	-	17.00	3.0	32.0	TAG 2	ETG 2*
TGTR/L 1612-2-L120-IQ	1.80	2.50	16.0	12.0	1.65	120.00	16.0	-	16.00	-	35.0	TAG 2	ETG 2*
TGTR/L 1616-2-IQ	1.80	2.40	16.0	16.0	1.65	150.00	16.0	-	16.00	-	35.0	TAG 2	ETG 2*
TGTR/L 2012-2-IQ	1.80	2.40	20.0	12.0	1.65	125.00	20.0	-	16.00	-	35.0	TAG 2	ETG 2*

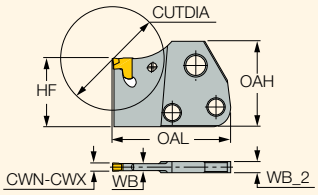
(1) Minimum cutting width
(2) Maximum cutting width
(3) Maximum workpiece diameter for grooving operation
* Optional, to be ordered separately

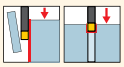
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

TANG-GRIP PARTING LINE

TGAD

Parting and Grooving Adapters Carrying TANG-GRIP Tangentially Clamped Inserts





Designation	CWN(1)	CWX(2)	WB_2	WB	OAL	CUTDIA(3)	HF	OAH	Insert	
TGAD 1.4N	1.40	1.40	3.20	1.1	41.50	32.0	24.0	29.00	TAG 1.4	ETG 1.4/1.6*
TGAD 2N	1.80	2.40	3.20	1.7	41.50	32.0	24.0	30.00	TAG 2	ETG 2*

(1) Minimum cutting width
(2) Maximum cutting width
(3) Maximum workpiece diameter for grooving operation
* Optional, to be ordered separately

MAXVALUE

MINIMUM COST MAXIMUM OUTPUT

Mini PENTA, size 17
for precision grooving
and parting up to an 8mm
workpiece diameter.



Mini PENTA 17
0.25 up to 2mm cutting width

Pentagonal inserts with 5 cutting edges offer **a cost-effective solution for grooving while minimizing raw material waste during parting operations.**



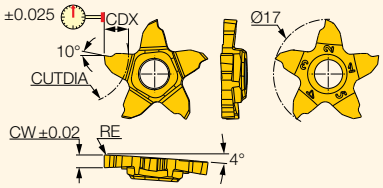
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

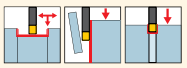
PENTACUT

PENTA 17-P-RS/LS

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







Designation	Dimensions CW	RE	CDX	CUTDIA	IC1008	Recommended Machining Data f groove (mm/rev)
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 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 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

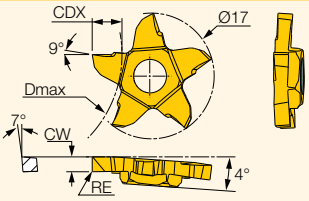
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

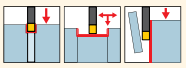
PENTACUT

PENTA 17-NP-RS/LS

Pentagonal Inserts for Precision Grooving and Turning Next to High Shoulder Applications







Designation	Dimensions CW	CWTOL(1)	RE	RETOL(2)	CDX	D max(3)	IC1008	Recommended Machining Data a_p (mm)	f turn (mm/rev)	f groove (mm/rev)
PENTA 17-100NP08R/LS	1.00	0.020	0.08	0.020	3.00	32.0 (4)	●	0.05-0.70	0.020-0.060	0.03-0.06
PENTA 17-200NP08R/LS	2.00	0.020	0.08	0.020	4.00	32.0 (4)	●	0.05-2.50	0.050-0.150	0.05-0.09

• When turning to the opposite side of chipformer, maximum CDX is 0.5 mm

(1) Cutting width tolerance (+/-)

(2) Corner radius tolerance (+/-)

(3) Maximum workpiece diameter for grooving operation

(4) For grooving

Designation	Dimensions CW	RE	CDX	Dmax as a function of depth of cut (CDX) CDX≤2.5	CDX≤3.0	CDX≤3.5	CDX≤3.8	CDX≤4.0
PENTA 17-100NP08-R/LS	1.00	0.08	3.00	N.L.	100	-	-	-
PENTA 17-200NP08-R/LS	2.00	0.08	4.00	N.L.	100	75	45	32

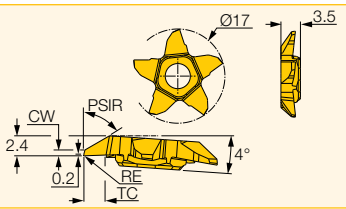
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

PENTACUT

PENTA 17-ER/EL

Back Turning Pentagonal Inserts
for Short Chipping Materials







Designation	Dimensions CW	RE	PSIR	Tc	IC1008	Recommended Machining Data a_p (mm)	f turn (mm/rev)
PENTA 17EL00-07K0LS	0.70	0.00	60.0	4.0	●	0.05-2.50	0.010-0.150
PENTA 17ER00-07K0RS	0.70	0.00	60.0	4.0	●	0.05-2.50	0.010-0.150
PENTA 17EL08-07K0LS	0.70	0.08	60.0	4.0	●	0.05-2.50	0.010-0.150
PENTA 17ER08-07K0RS	0.70	0.08	60.0	4.0	●	0.05-2.50	0.010-0.150

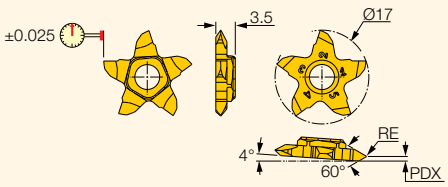
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

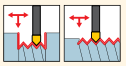
PENTACUT
THREADING LINE

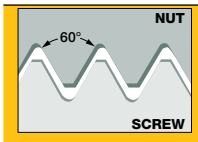
PENTA 17-MT-RS/LS

Precision Ground Pentagonal
External Threading Inserts
with a 60° Partial Profile
for General Applications









Designation	Dimensions TPIN(1)	TPIX(2)	TPN(3)	TPX(4)	RE	PDX	IC1008
PENTA 17-MTL008LS IC1008	8.00	36.00	0.700	3.000	0.08	1.40	●
PENTA 17-MTR008RS IC1008	8.00	36.00	0.700	3.000	0.08	1.40	●
PENTA 17-MTL003LS IC1008	17.00	80.00	0.300	1.500	0.03	0.80	●
PENTA 17-MTR003RS IC1008	17.00	80.00	0.300	1.500	0.03	0.80	●

• DIN13 , ISO 68-1, ISO 965 (1&2) - External tolerance: 6g • ANSI/ASME B1.1 - External tolerance: 2A

(1) Threads per inch minimum
(2) Threads per inch maximum
(3) Thread pitch minimum (mm)
(4) Thread pitch maximum (mm)

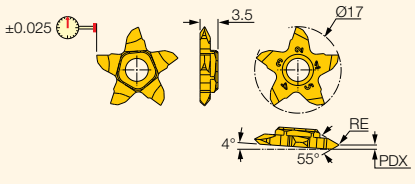
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

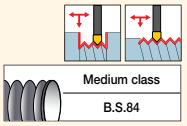
PENTACUT
THREADING LINE

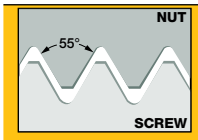
PENTA 17-WT-RS/LS

Precision Ground Pentagonal
External Threading Inserts
with a 55° Partial Profile
for General Applications









Designation	Dimensions TPIX(1)	TPIN(2)	RE	PDX	IC1008
PENTA 17-WTL003LS IC1008	72.00	16.00	0.03	0.80	●
PENTA 17-WTR003RS IC1008	72.00	16.00	0.03	0.80	●
PENTA 17-WTL008LS IC1008	31.00	8.00	0.08	1.40	●
PENTA 17-WTR008RS IC1008	31.00	8.00	0.08	1.40	●

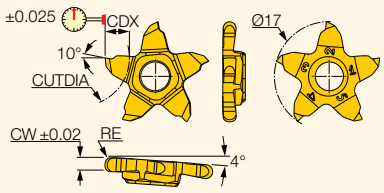
(1) Threads per inch maximum
(2) Threads per inch minimum

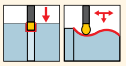
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

PENTACUT

PENTA 17-P-RS/LS (full radius)

Precision Grooving
Pentagonal Full Radius
Inserts for Soft Materials



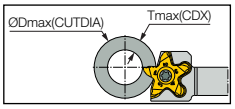


Designation	Dimensions CW	RE	CDX	CUTDIA	IC1008	Recommended Machining Data f groove (mm/rev)
PENTA 17N080P040R/LS	0.80	0.40	2.50	5.0	●	0.02-0.04
PENTA 17N100P050R/LS	1.00	0.50	3.00	6.0	●	0.02-0.05
PENTA 17N157P079R/LS	1.57	0.79	4.00	8.0	●	0.02-0.07
PENTA 17N200P100R/LS	2.00	1.00	4.00	8.0	●	0.02-0.08

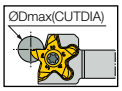
Designation	Dmax as a function of depth of cut (T) W ±0.02	R	Tmax	T<2.3	T<2.5	T<3.0	T<3.5	T<3.8	T<4.0	Parting to center Dmax.
PENTA 17N025P000RS/LS	0.25	0.00	0.6*	---	---	---	---	---	---	1.2
PENTA 17N030P000RS/LS	0.30	0.00	0.6*	---	---	---	---	---	---	1.2
PENTA 17N033P000RS/LS	0.33	0.00	0.6*	---	---	---	---	---	---	1.2
PENTA 17N043P000RS/LS	0.43	0.00	1.0*	---	---	---	---	---	---	2
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.	400		---	---	---	
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	4.0	N.L.	400	100	55	32	20	8
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	

1. N.L. = NO LIMIT
2. *For precision grooving Dmax = N.L.
3. PENTA 17...RS to be clamped on PCHRS ...-17 holders, PENTA 17...LS to be clamped on PCHLS ...-17 holders.

Parting Hollow Bars



Parting to Center



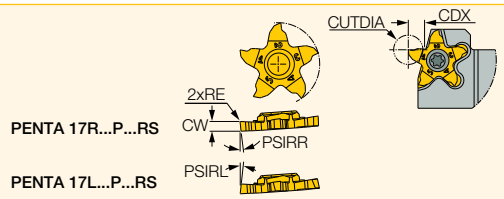
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

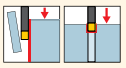
PENTACUT

PENTA 17R/L-P-RS

Lead Angle Edge Pentagonal Inserts (5 edges) for Parting Miniature Parts







Designation	Dimensions CW	RE	CDX	CUTDIA	PSIRL	PSIRR	IC1008	Recommended Machining Data f groove (mm/rev)
PENTA 17L100P-15D-RS	1.00	0.05	3.00	6.0	15.0	-	●	0.02-0.03
PENTA 17L100P-6D-RS	1.00	0.05	3.00	6.0	6.0	-	●	0.02-0.04
PENTA 17R100P-15D-RS	1.00	0.05	3.00	6.0	-	15.0	●	0.02-0.03
PENTA 17R100P-6D-RS	1.00	0.05	3.00	6.0	-	6.0	●	0.02-0.04
PENTA 17L150P-15D-RS	1.50	0.05	4.00	8.0	15.0	-	●	0.02-0.03
PENTA 17L150P-6D-RS	1.50	0.05	4.00	8.0	6.0	-	●	0.02-0.04
PENTA 17R150P-15D-RS	1.50	0.05	4.00	8.0	-	15.0	●	0.02-0.03
PENTA 17R150P-6D-RS	1.50	0.05	4.00	8.0	-	6.0	●	0.02-0.04
PENTA 17L200P-15D-RS	2.00	0.05	4.00	8.0	15.0	-	●	0.02-0.03
PENTA 17L200P-6D-RS	2.00	0.05	4.00	8.0	6.0	-	●	0.02-0.04
PENTA 17R200P-15D-RS	2.00	0.05	4.00	8.0	-	15.0	●	0.02-0.03
PENTA 17R200P-6D-RS	2.00	0.05	4.00	8.0	-	6.0	●	0.02-0.04

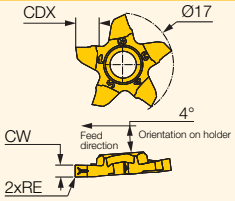
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

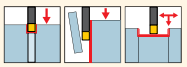
PENTACUT

PENTA 17-NX-RS

Pentagonal Inserts for Precision Grooving and Parting Off for Next to Shoulder Applications



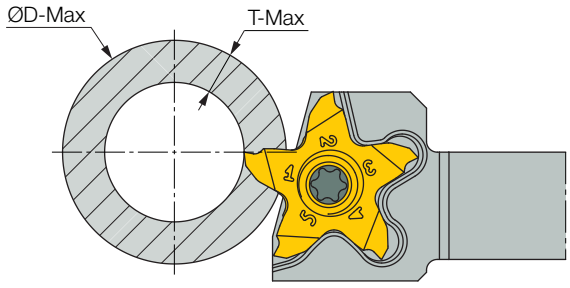




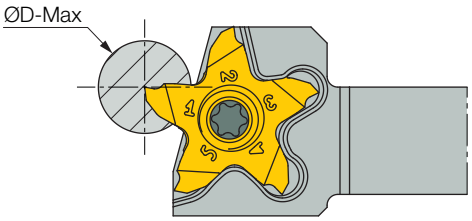
Designation	Dimensions CW	CWTOL(1)	RE	RETOL(2)	CDX	IC1008	Recommended Machining Data a_p (mm)	f turn (mm/rev)	f groove (mm/rev)
PENTA 17N150NX080RS	1.50	0.020	0.08	0.020	4.00	●	0.05-1.80	0.020-0.110	0.02-0.07
PENTA 17N200NX080RS	2.00	0.020	0.08	0.020	4.00	●	0.05-2.50	0.030-0.150	0.03-0.09

(1) Cutting width tolerance (+/-)
(2) Corner radius tolerance (+/-)

Grooving and Parting hollow bars



Parting to center



PENTA 17...NX...RS - Precision Grooving and Parting Inserts

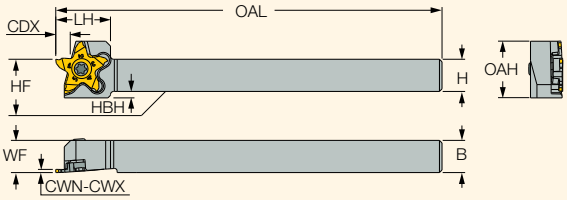
Designation	CW	RE	T-Max	D-Max as a Function of Depth of Cut (T) T ≤ 2.3	T ≤ 2.5	T ≤ 3.0	T ≤ 3.5	T ≤ 3.8	T ≤ 4.0	Parting to Center D-Max
PENTA 17N150NX080RS	1.5	0.08	4.0	N.L.	400	100	55	32	25	8
PENTA 17N200NX080RS	2.0									
PENTA 17N250NX080RS	2.5									

1. N.L. = NO LIMIT
2. * - For precision grooving Dmax = N.L.
3. PENTA 17...RS to be clamped on PCHRS ...-17 holders

PENTACUT

PCHRS/LS-17

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



Right-hand tool shown

Designation	H	B	CWN[1]	CWX[2]	WF	OAL	LH	HBH	OAH	CDX	HF
PCHR/LS 0810-17	8.0	10.0	0.25	3.18	10.00	120.00	17.0	4.0	13.60	4.00	8.00
PCHR/LS 10-17	10.0	10.0	0.25	3.18	10.00	120.00	17.0	2.0	15.60	4.00	10.00
PCHR/LS 12-17	12.0	12.0	0.25	3.18	12.00	120.00	17.0	-	17.60	4.00	12.00
PCHR/LS 16-17	16.0	16.0	0.25	3.18	16.00	120.00	17.0	-	21.60	4.00	16.00
PCHR/LS 20-17	20.0	20.0	0.25	3.18	20.00	120.00	17.0	-	25.60	4.00	20.00
PCHR/LS 25-17	25.0	25.0	0.25	3.18	25.00	120.00	17.0	-	30.60	4.00	25.00

- Use right-hand inserts on right-hand tools and vice versa

[1] Minimum cutting width

[2] Maximum cutting width

Spare Parts

Designation		
PCHLS 0810-17	SR M4-39432[a]	T-1508/5
PCHRS 0810-17	SR M4-39432L[a]	T-1508/5
PCHLS 10-17	SR M4-39432[a]	T-1508/5
PCHRS 10-17	SR M4-39432L[a]	T-1508/5
PCHLS 12-17	SR M4-39432[a]	T-1508/5
PCHRS 12-17	SR M4-39432L[a]	T-1508/5
PCHLS 16-17	SR M4-39432[a]	T-1508/5
PCHRS 16-17	SR M4-39432L[a]	T-1508/5
PCHLS 20-17	SR M4-39432[a]	T-1508/5
PCHRS 20-17	SR M4-39432L[a]	T-1508/5
PCHLS 25-17	SR M4-39432[a]	T-1508/5
PCHRS 25-17	SR M4-39432L[a]	T-1508/5

[a] Recommended tightening torque: 2.5 N*m

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

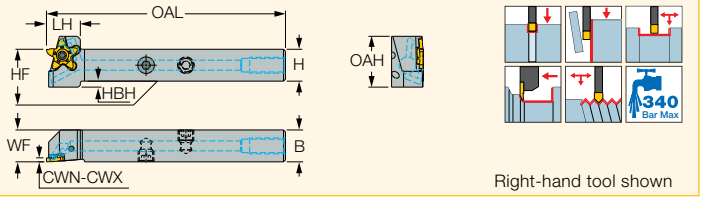


MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

PENTACUT

PCHRS/LS-17-JHP

Tools Carrying Inserts with
5 Cutting Edges for Shallow
Profiling Next to High Shoulders



Right-hand tool shown

Designation	H	B	WF	OAL	LH	HBH	HF	OAH	CDX
PCHR/LS 10-17-JHP	10.0	10.0	10.00	100.00	17.0	8.0	10.00	24.50	4.00
PCHR/LS 12-17-JHP	12.0	12.0	12.00	100.00	17.0	6.0	12.00	24.50	4.00
PCHR/LS 16-17-JHP	16.0	16.0	16.00	120.00	17.0	3.0	16.00	25.50	4.00
PCHR/LS 20-17-JHP	20.0	20.0	20.00	120.00	17.0	-	20.00	26.50	4.00
PCHR/LS 25-17-JHP	25.0	25.0	25.00	120.00	17.0	-	25.00	31.50	4.00

- Use right-hand inserts on right-hand tools and vice versa

Spare Parts

Designation				
PCHLS 10-17-JHP	SR M4-39432[a]	T-1508/5	HW 5/32"	SR 5/16UNF TL360
PCHRS 10-17-JHP	SR M4-39432L[a]	T-1508/5	HW 5/32"	SR 5/16UNF TL360
PCHLS 12-17-JHP	SR M4-39432[a]	T-1508/5	HW 5/32"	SR 5/16UNF TL360
PCHRS 12-17-JHP	SR M4-39432L[a]	T-1508/5	HW 5/32"	SR 5/16UNF TL360
PCHLS 16-17-JHP	SR M4-39432[a]	T-1508/5	HW 5/32"	SR 5/16UNF TL360
PCHRS 16-17-JHP	SR M4-39432L[a]	T-1508/5	HW 5/32"	SR 5/16UNF TL360
PCHLS 20-17-JHP	SR M4-39432[a]	T-1508/5	HW 5.0	PLG G1/8 TL360
PCHRS 20-17-JHP	SR M4-39432L[a]	T-1508/5	HW 5.0	PLG G1/8 TL360
PCHLS 25-17-JHP	SR M4-39432[a]	T-1508/5		
PCHRS 25-17-JHP	SR M4-39432L[a]	T-1508/5		

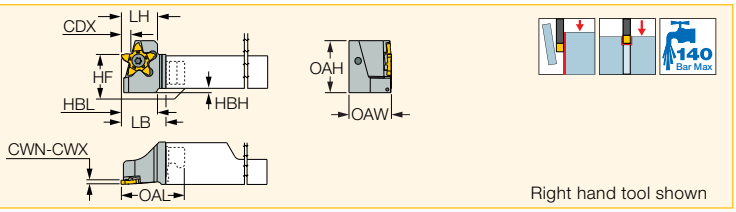
[a] Recommended tightening torque: 2.5 N*m

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

NEOSWISS

NQCH-PCHR/L-S-JHP

Screw Lock JETCUT
Modular Heads Carrying
PENTA Inserts for Grooving,
Parting, and Recessing on
Swiss-Type Machines



Right hand tool shown

Designation	HF	OAW	LB	OAH	HBH	LH	OAL	HBL	CWN[2]	CWX[3]	CDX	MIID[4]
NQCH12-PCHR/LS-17-JHP	12.00	20.00	21.00	24.40	6.0	17.0	29.80	17.0	0.25	3.18	4.00	PENTA 17
NQCH12R-PCHLS-17-JHP [1]	12.00	20.00	21.00	24.40	6.0	17.0	29.80	17.0	0.25	3.18	4.00	PENTA 17
NQCH16-PCHR/LS-17-JHP	16.00	20.00	21.00	24.50	2.0	17.0	29.80	17.0	0.25	3.18	4.00	PENTA 17
NQCH16R-PCHLS-17-JHP [1]	16.00	20.00	21.00	24.50	2.0	17.0	29.80	17.0	0.25	3.18	4.00	PENTA 17

- Use only RH Shank with RH Head and LH Shank with LH Head except NQCH12R/16R... heads.

[1] The head is dedicated for the right hand machines and to be mounted on the right hand holder only.
[2] Minimum cutting width
[3] Maximum cutting width
[4] Master insert identification

Spare Parts

Designation		
NQCH12-PCHLS-17-JHP	SR M4-39432[a]	T-1508/5
NQCH12-PCHRS-17-JHP	SR M4-39432L[a]	T-1508/5
NQCH12R-PCHLS-17-JHP	SR M4-39432[a]	T-1508/5
NQCH16-PCHLS-17-JHP	SR M4-39432[a]	T-1508/5
NQCH16-PCHRS-17-JHP	SR M4-39432L[a]	T-1508/5
NQCH16R-PCHLS-17-JHP	SR M4-39432[a]	T-1508/5

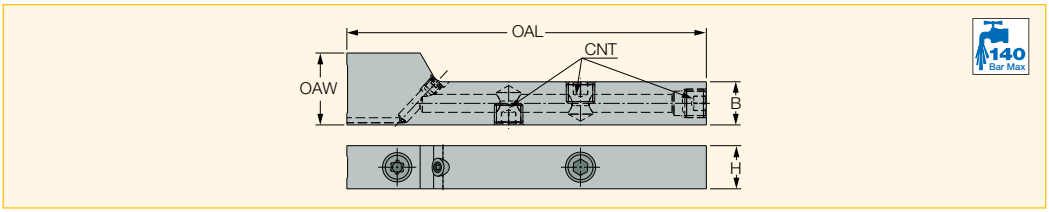
[a] Recommended tightening torque: 2.5 N*m

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

NEOSWISS

NQCH-JHP

JETCUT Square Shanks for NEOSWISS Modular Heads intended for Swiss-Type Machines



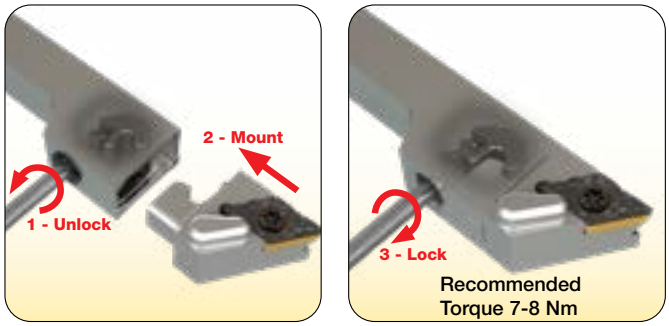
Designation	B	H	OAL	OAW	CNT	Range(2)
NQCH-1010-JHP (1)	10.0	10.0	100.00	20.00	UNF 5/16-24	5-6
NQCH-1212-JHP (1)	12.0	12.0	100.00	20.00	UNF 5/16-24	7-8
NQCH-1616-JHP (1)	16.0	16.0	100.00	20.00	UNF 5/16-24	7-8

- Replacing the clamping screw should be performed by an ISCAR qualified technician

(1) The shank is neutral and can be used for both left and right hand head

(2) Recommended torque for clamping screw

Clamping Operational Steps



• Replacing clamping screw should be performed by an ISCAR qualified technician.
• To avoid damage, avoid excessive force when opening or clamping.
• Do not disassemble the tool to avoid damage to the clamping mechanism.

Supplied Accessories

Item No: 7003805
SW6-T-SH



Item No: 7002553
BLD IP20/S7



Recommended Accessories (optional)

Item No: 7007221
TSA 6 5-14 Nm



Item No: 7007027
BLD 6 T20IP

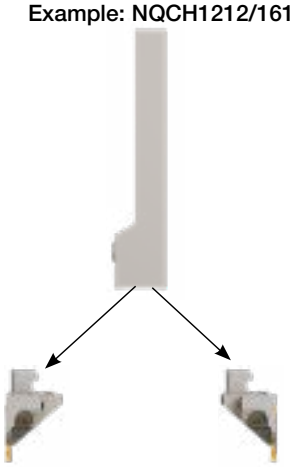




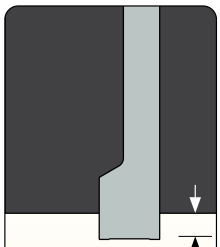
Shank's left-hand orientation for the left-hand tool machine
Example: NQCH1212/1616



Shank's right-hand orientation for the right-hand tool machine
Example: NQCH1212/1616



GANG / TOOL POST



Tool shank overhang (excluding its head) from the tool post should be set at a maximum distance of 1-2mm.

Left hand head
Example: NQCH12/16-DGTL...

Left hand head for Shank's right-hand orientation
Example: NQCH12R/16R-DGTL...

Right hand head
Example: NQCR12/16-DGTR...

* Available for Grooving & Parting

Spare Parts

Designation						
NQCH-1010-JHP	SR 5/16UNF TL360	L-KEY TORX PLUS IP20 62MM			NQCH PLUG*	NQCH12-16 LOCK SCREW
NQCH-1212-JHP	SR 5/16UNF TL360		SW6-T-SH	BLD IP20/S7	NQCH PLUG*	NQCH12-16 LOCK SCREW
NQCH-1616-JHP	SR 5/16UNF TL360		SW6-T-SH	BLD IP20/S7	NQCH PLUG*	NQCH12-16 LOCK SCREW

* Optional, to be ordered separately

MAXVALUE

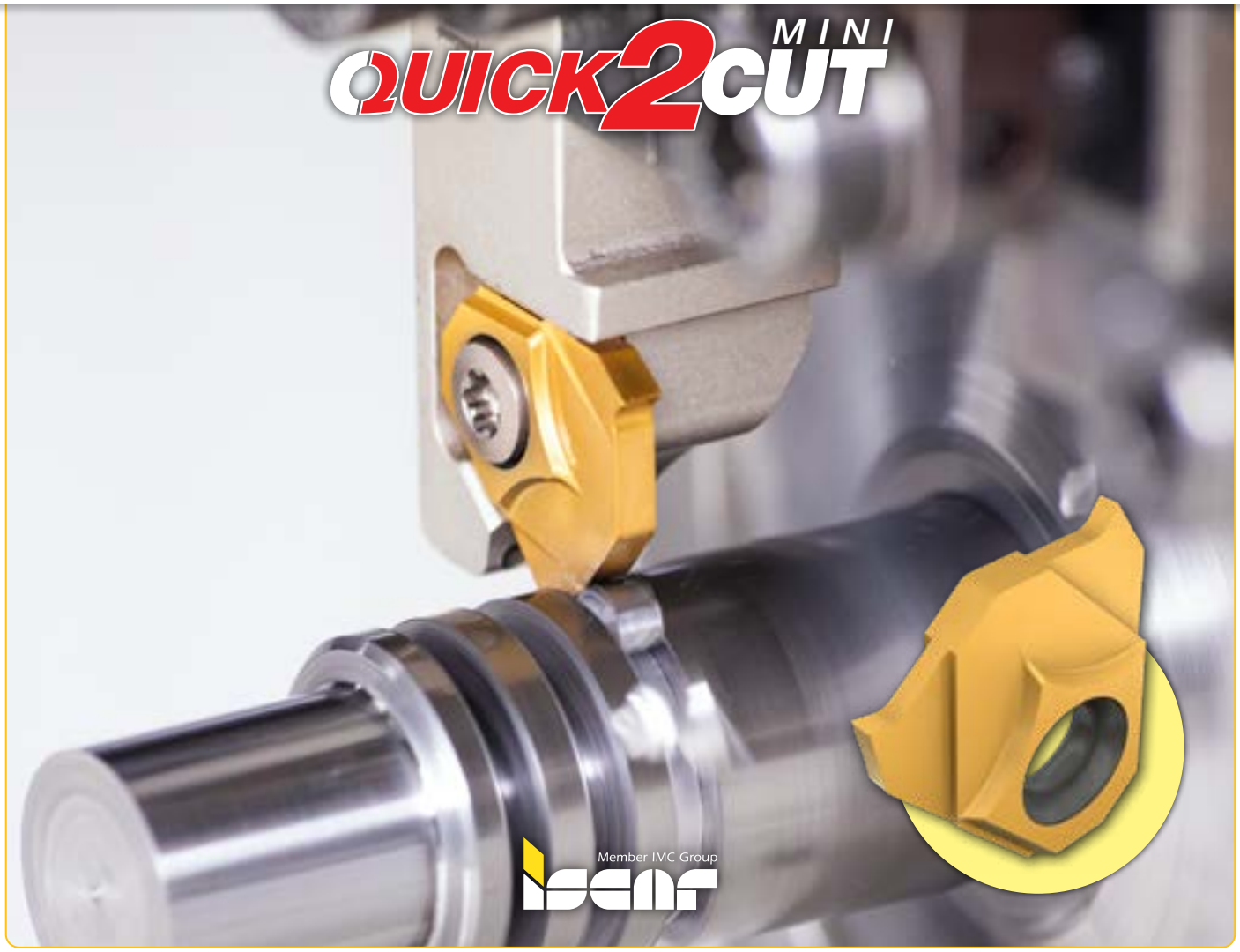
MINIMUM COST MAXIMUM OUTPUT

For precision grooving and parting up to a 12mm workpiece diameter.



QUICK-2-CUT
0.33 up to 2mm cutting width

This robust 2 cutting edges insert, tangentially clamped for **superior stability, delivers longer tool life and allows narrow cutting widths for maximum raw material savings.**



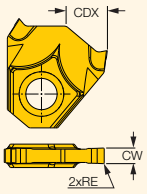
QUICK2CUT MINI

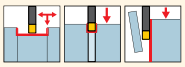
TGV N

Double Sided Tangential Insert for SWISS Type Machines, Intended for Grooving, Parting and Recessing Small Parts

MAXVALUE MINIMUM COST MAXIMUM OUTPUT







Designation	Dimensions CW	RE	CWTOL[1]	RETOL[2]	CDX	IC1010	Recommended Machining Data f groove (mm/rev)
TGV N033P-000	0.33	0.00	0.020	0.030	2.00	●	0.02-0.04
TGV N050P-000	0.50	0.00	0.020	0.030	2.50	●	0.03-0.05
TGV N075P-005	0.75	0.05	0.020	0.030	3.00	●	0.03-0.06
TGV N1.00P-005	1.00	0.05	0.020	0.030	4.00	●	0.03-0.08
TGV N2.00P-0.1	2.00	0.10	0.020	0.030	6.00	●	0.03-0.10

- Cutting edge with high positive rake, suitable for parting small and miniature parts

(1) Cutting width tolerance (+/-)

(2) Corner radius tolerance (+/-)

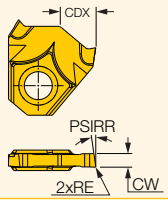
QUICK2CUT MINI

TGV R/L

Double Sided Tangential Insert with Lead Angle Cutting Edge to Minimize Burr Size, Intended for Parting Small Parts

MAXVALUE MINIMUM COST MAXIMUM OUTPUT







Designation	Dimensions CW	PSIRL[1]	PSIRR[2]	RE	CDX	IC1010	Recommended Machining Data f groove (mm/rev)
TGV L1.00P-0.05-8D	1.00	8.0	-	0.05	4.00	●	0.03-0.06
TGV R1.00P-0.05-8D	1.00	-	8.0	0.05	4.00	●	0.03-0.06
TGV L2.00P-0.05-8D	2.00	8.0	-	0.05	6.00	●	0.03-0.08
TGV R2.00P-0.05-8D	2.00	-	8.0	0.05	6.00	●	0.03-0.08

- Cutting edge with high positive rake, suitable for parting small and miniature parts

(1) Lead angle type for minimal burr size (left)

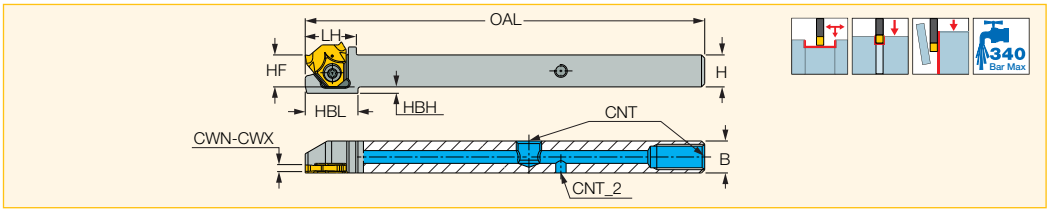
(2) Lead angle type for minimal burr size (right)

QUICK2CUT MINI

TGVR/L-JHP

Grooving, Parting and Recessing Tools Carrying TGV Inserts with Channels for High-Pressure Coolant

MAXVALUE MINIMUM COST MAXIMUM OUTPUT

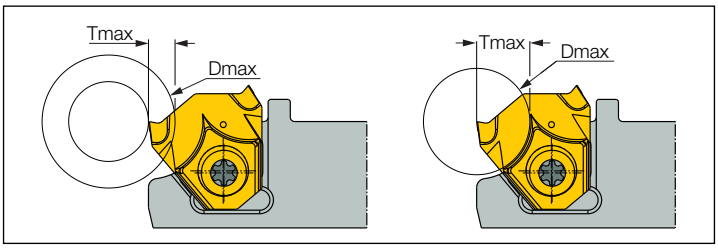


Designation	H	HF	B	CWN[1]	CWX[2]	OAL	LH	HBL	HBH	CNT	CNT_2	MIID[3]
TGVR/L 1010-JHP	10.0	10.00	10.0	0.33	2.00	125.00	16.0	16.5	2.0	UNF 5/16-24	M4	TGV N/R/L 0.33-3.0
TGVR/L 1212-JHP	12.0	12.00	12.0	0.33	2.00	125.00	16.0	-	-	UNF 5/16-24	M4	TGV N/R/L 0.33-3.0
TGVR/L 1616-JHP	16.0	16.00	16.0	0.33	2.00	125.00	16.0	-	-	UNF 5/16-24	M4	TGV N/R/L 0.33-3.0

(1) Minimum cutting width
(2) Maximum cutting width
(3) Master insert identification

Depth Capacity

Determining depth of cut (Tmax) as function of workpiece diameter (Dmax.)



W (insert)	Tmax	Dmax	T≤0.5	T≤1.0	T≤1.5	T≤2.0	T≤2.5	T≤3.0	T≤3.5	T≤4.0	T≤4.5	T≤5.0	T≤5.5	T≤6.0
0.33	2.0	24.0	72	45	31	24	-	-	-	-	-	-	-	-
0.50	2.5	20.0					-	-	-	-	-	-	-	-
0.75	3.0	18.0					20		-	-	-	-	-	-
1.00	4.0	15.0						18			-	-	-	-
2.00	6.0	12.0							16	15	14	13	13	12

Spare Parts

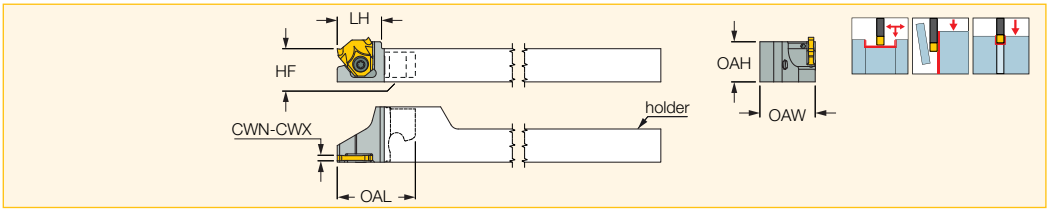
Designation					
TGVR/L-JHP	SR M3.5X0.6-L8.5 IP10	IP-10/5	SR 5/16UNF TL360	SR M4X4 DIN913 TL360	HW 5/32"

MAXVALUE MINIMUM COST MAXIMUM OUTPUT

NEOSWISS

NQCH-TGVR/L-JHP

Screw Lock JETCUT Modular Heads Carrying Grooving, Parting and Recessing TGV Inserts for Swiss-Type Machines



Designation	CWN[1]	CWX[2]	OAL	HF	LH	OAW	OAH	MIID[3]
NQCH12-TGVR/L-JHP	0.33	2.00	25.80	12.00	16.0	20.00	14.50	TGV..
NQCH12R-TGVL-JHP	0.33	2.00	25.80	12.00	16.0	20.00	14.50	TGV..
NQCH16-TGVR/L-JHP	0.33	2.00	25.80	16.00	16.0	20.00	16.50	TGV..
NQCH16R-TGVL-JHP	0.33	2.00	25.80	16.00	16.0	20.00	16.50	TGV..

- Use only RH Shank with RH Head and LH Shank with LH Head

(1) Minimum cutting width
(2) Maximum cutting width
(3) Master insert identification

Spare Parts

Designation		
NQCH12-TGVR/L-JHP	SR M3.5X0.6-L8.5 IP10	IP-10/5
NQCH12R-TGVL-JHP	SR M3.5X0.6-L8.5 IP10	IP-10/5
NQCH16-TGVL-JHP		IP-10/5
NQCH16-TGVR/L-JHP	SR M3.5X0.6-L8.5 IP10	
NQCH16-TGVR-JHP		IP-10/5*
NQCH16R-TGVL-JHP	SR M3.5X0.6-L8.5 IP10	IP-10/5

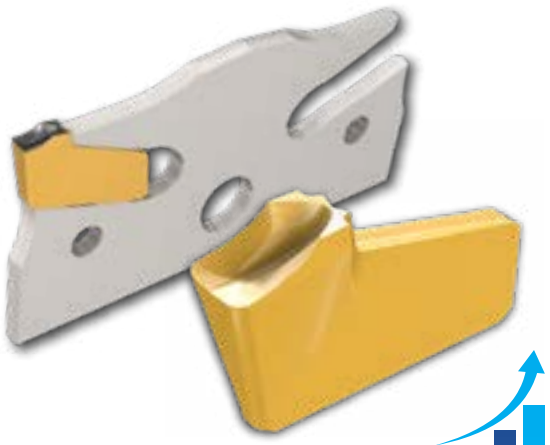
* Optional, to be ordered separately

MAXVALUE

MINIMUM COST MAXIMUM OUTPUT

Narrow SLIM-GRIP inserts suitable for parting up to a 16mm bar diameter and narrow slitting.





SLIM-GRIP
0.6-up to 1.6mm cutting width

Maximize efficiency and minimize raw material waste
with narrow-cut inserts designed for parting and slitting.



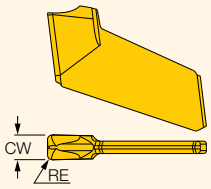
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

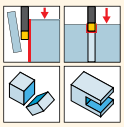
SLIMGRIP
NARROW INSERTS

GFT-J

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







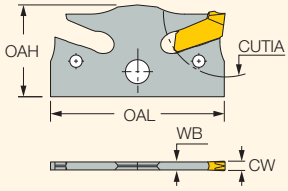
Designation	Dimensions CW	RE	Tough ↔ Hard IC1028	IC1008	Recommended Machining Data f groove (mm/rev)
GFT 0.6J-0.1	0.60	0.10	●	●	0.03-0.05
GFT 0.8J-0.1	0.80	0.10	●	●	0.03-0.07
GFT 1.0J-0.1	1.00	0.10	●	●	0.03-0.09
GFT 1.2J-0.14	1.20	0.14	●	●	0.03-0.10
GFT 1.6J-0.16	1.60	0.16	●	●	0.03-0.12

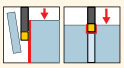
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

SWISSGRIP
NARROW WIDTHS

SGAQ

SELF-GRIP Mini Blades for Parting and Grooving, Suitable for Swiss-Type Machines





Designation	OAH	OAL	CUTDIA	WB	CW	MIID[1]	
SGAQ D10-0.6	11.50	21.80	10.0	0.50	0.60	GFT 0.6J-0.1	ESG-SLM*
SGAQ D10-0.8	11.50	21.80	10.0	0.68	0.80	GFT 0.8J-0.1	ESG-SLM*
SGAQ D16-1.0	11.50	21.80	16.0	0.85	1.00	GFT 1.0J-0.1	ESG-SLM*
SGAQ D16-1.2	11.50	21.80	16.0	1.00	1.20	GFT 1.2J-0.14	ESG-SLM*

(1) Master insert identification

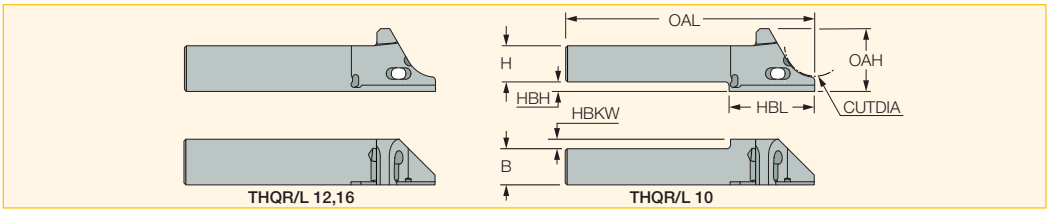
* Optional, to be ordered separately

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

SWISSGRIP
NARROW WIDTHS

THQR/L

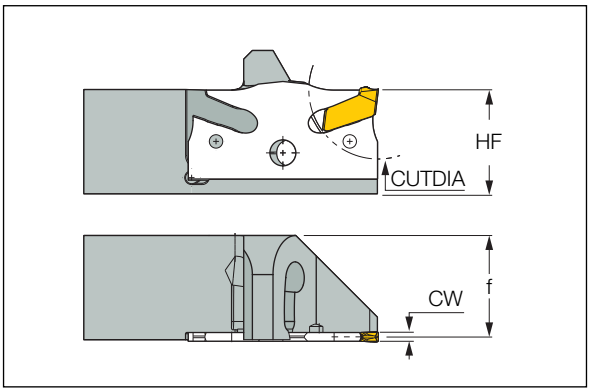
Parting and Grooving Holder for a SELF-GRIP Mini Blades (SGAQ), Suitable for Swiss-Type Machines



Designation	H	OAL	HF	OAH	HBL	HBH	CUTDIA	HBKW	B
THQR/L 10-D16	10.0	100.00	10.00	16.50	22.6	2.0	16.0	2.00	10.0
THQR/L 12-D16	12.0	100.00	12.00	16.50	-	-	16.0	-	12.0
THQR/L 16-D16	16.0	100.00	16.00	20.50	-	-	16.0	-	16.0

Designation	CW	CUTDIA	f
THQL/R 10-D16 + SGAQ 0.6	0.6	10	9.68
THQL/R 10-D16 + SGAQ 0.8	0.8	10	9.68
THQL/R 12-D16 + SGAQ 0.6	0.6	10	11.68
THQL/R 12-D16 + SGAQ 0.8	0.8	10	11.68
THQL/R 16-D16 + SGAQ 0.6	0.6	10	15.68
THQL/R 16-D16 + SGAQ 0.8	0.8	10	15.68

Designation	CW	CUTDIA	f
THQL/R 10-D16 + SGAQ 1.0	1	16	9.60
THQL/R 10-D16 + SGAQ 1.2	1.2	16	9.68
THQL/R 12-D16 + SGAQ 1.0	1	16	11.60
THQL/R 12-D16 + SGAQ 1.2	1.2	16	11.68
THQL/R 16-D16 + SGAQ 1.0	1	16	15.60
THQL/R 16-D16 + SGAQ 1.2	1.2	16	15.68



Spare Parts

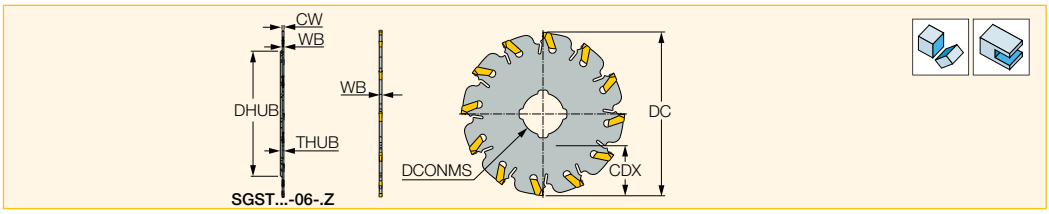
Designation	
THQR/L	ESG-SWISS 0.6-1.2

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

SLIMSLIT
NARROW SLITTING

SGST

Thin Slitting Cutters Carrying SLIM-GRIP Inserts



Designation	DC	CW	CICT(1)	WB	DCONMS	CDX	RPMX(2)	DHUB	THUB	Insert	CSP(3)	MIID(4)	
SGST 32-8-0.6-4Z	32.00	0.60	4	0.50	8.00	6.00	2490	19.00	1.06	GFT 0.6	0	GFT 0.6	ESG-SLM*
SGST 32-8-0.8-4Z	32.00	0.80	4	0.69	8.00	8.00	2490	-	-	GFT 0.8J-0.1	0	GFT 0.8J-0.1	ESG-SLM*
SGST 32-8-1.0-4Z	32.00	1.00	4	0.90	8.00	8.00	2490	-	-	GFT 1.0J-0.1	0	GFT 1.0J-0.1	ESG-SLM*
SGST 32-8-1.2-4Z	32.00	1.20	4	1.06	8.00	8.00	2490	-	-	GFT 1.2J-0.14	0	GFT 1.2J-0.14	ESG-SLM*
SGST 40-10-0.6-6Z	40.00	0.60	6	0.50	10.00	6.00	1990	27.00	1.06	GFT 0.6	0	GFT 0.6	ESG-SLM*
SGST 40-10-0.8-6Z	40.00	0.80	6	0.69	10.00	12.00	1990	-	-	GFT 0.8J-0.1	0	GFT 0.8J-0.1	ESG-SLM*
SGST 40-10-1.0-6Z	40.00	1.00	6	0.90	10.00	12.00	1990	-	-	GFT 1.0J-0.1	0	GFT 1.0J-0.1	ESG-SLM*
SGST 40-10-1.2-6Z	40.00	1.20	6	1.06	10.00	12.00	1990	-	-	GFT 1.2J-0.14	0	GFT 1.2J-0.14	ESG-SLM*
SGST 50-13-0.6-9Z	50.00	0.60	9	0.50	13.00	6.00	1590	37.00	1.06	GFT 0.6	0	GFT 0.6	ESG-SLM*
SGST 50-13-0.8-9Z	50.00	0.80	9	0.69	13.00	12.50	1590	-	-	GFT 0.8J-0.1	0	GFT 0.8J-0.1	ESG-SLM*
SGST 50-13-1.0-9Z	50.00	1.00	9	0.90	13.00	12.50	1590	-	-	GFT 1.0J-0.1	0	GFT 1.0J-0.1	ESG-SLM*
SGST 50-13-1.2-9Z	50.00	1.20	9	1.06	13.00	12.50	1590	-	-	GFT 1.2J-0.14	0	GFT 1.2J-0.14	ESG-SLM*
SGST 63-16-1.0-12Z	63.00	1.00	12	0.90	16.00	19.00	1260	-	-	GFT 1.0J-0.1	0	GFT 1.0J-0.1	ESG-SLM*
SGST 63-16-1.2-12Z	63.00	1.20	12	1.06	16.00	19.00	1260	-	-	GFT 1.2J-0.14	0	GFT 1.2J-0.14	ESG-SLM*

(1) Number of inserts (or edges for solid tool)
(2) Maximum RPM
(3) 0 - Without coolant supply, 1 - With coolant supply
(4) Master insert identification
* Optional, to be ordered separately

MAXVALUE

MINIMUM COST MAXIMUM OUTPUT



SELF-GRIP
1.2 up to 2.0mm cutting width

The proven original cut-off solution for **significantly lower parting costs, backed by lasting performance and reliability.**



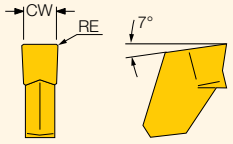
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

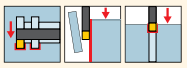
SELFGRIP

GFN-C

Parting & Grooving, Single-Ended Insert, for Parting Bars, Hard Materials and Tough Applications







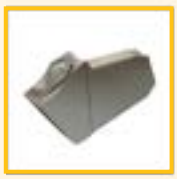
Designation	Dimensions CW	CWTOL	RE	fg (min)	fg (max)	Tough ↔ Hard IC328	IC1028	IC354	IC908	IC30N	IC20	IC428
GFN 1.6	1.60	0.03	0.16	0.05	0.12	●	●	●	●		●	●
GFN 2	2.20	0.03	0.16	0.05	0.16	●	●	●	●	●	●	
GFN 2B	2.20	0.03	0.20	0.06	0.18	●	●	●				
GFN 2E	2.20	0.03	0.16	0.06	0.17					●		

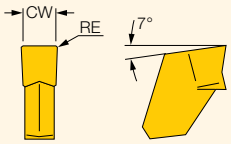
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

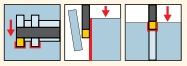
SELFGRIP

GFN-J

Parting & Grooving Single-Ended Insert for Soft Materials, Parting of Tubes, Small Diameters and Thin-Walled Parts







Designation	Dimensions CW	CWTOL	RE	RETOL	fg (min)	fg (max)	Tough ↔ Hard IC328	IC1028	IC354	IC250	IC908	IC20
GFN 1.2J	1.20	0.03	0.14	0.05	0.03	0.10	●		●			●
GFN 1.2JS	1.20	0.03	0.02	0.02	0.02	0.06	●					
GFN 1.6J	1.60	0.03	0.16	0.05	0.03	0.10	●	●	●		●	●
GFN 2J	2.00	0.03	0.16	0.05	0.04	0.12	●	●	●	●	●	●

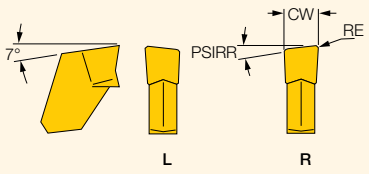
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

SELFGRIP

GFR/L-C

Single-Ended Parting Insert, for Parting Bars, Hard Materials and Tough Applications







Designation	Dimensions CW	RE	fg (min)	fg (max)	PSIRR	PSIRL	Tough ↔ Hard IC328	IC354	IC30N	IC20
GFL 1.6 - 8D	1.60	0.16	0.03	0.10	-	8		●		●
GFR 1.6 - 8D	1.60	0.16	0.03	0.10	8	-		●		●
GFL 1.6 -15D	1.60	0.16	0.03	0.08	-	15	●	●		●
GFR 1.6 -15D	1.60	0.16	0.03	0.08	15	-		●		●
GFR 2S - 8D	2.20	0.02	0.03	0.10	8	-		●		●
GFL 2S -15D	2.20	0.02	0.03	0.08	-	15	●	●		
GFR 2S -15D	2.20	0.02	0.03	0.08	15	-	●	●		●
GFR 2E - 6D	2.00	0.16	0.04	0.12	6	-			●	
GFL 2 - 4D	2.20	0.16	0.04	0.13	-	4		●		
GFR 2 - 4D	2.20	0.16	0.04	0.13	4	-		●		●
GFL 2 - 6D	2.20	0.16	0.04	0.12	-	6	●			
GFR 2 - 6D	2.20	0.16	0.04	0.12	6	-	●			
GFL 2 - 8D	2.20	0.16	0.04	0.11	-	8		●		●
GFR 2 - 8D	2.20	0.16	0.04	0.11	8	-	●	●	●	●
GFL 2 -15D	2.20	0.16	0.04	0.09	-	15	●	●		●
GFR 2 -15D	2.20	0.16	0.04	0.09	15	-		●		●

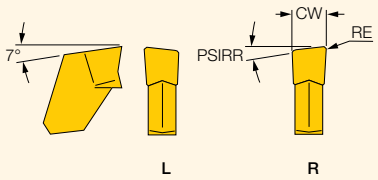
SELF-GRIP

GFR/L-J

Single-Ended Parting Insert, for Soft Materials, Parting of Tubes, Small Diameters and Thin-Walled Parts

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT





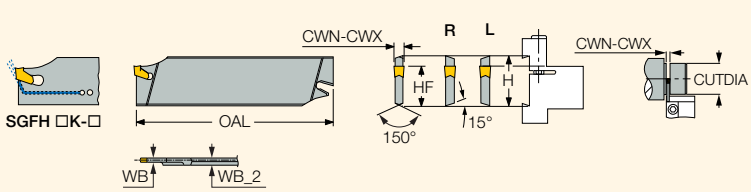
Designation	Dimensions						Tough ↔ Hard			
	CW	RE	PSIRL	PSIRR	fg (min)	fg (max)	IC228	IC328	IC354	IC20
GFL 1.2JS-10D	1.20	0.02	10	-	0.03	0.06		●		
GFR 1.2JS-10D	1.20	0.02	-	10	0.03	0.06		●	●	●
GFL 1.2JS-15D	1.20	0.02	15	-	0.03	0.05		●		
GFR 1.2JS-15D	1.20	0.02	-	15	0.03	0.05		●		
GFL 1.2J -10D	1.20	0.14	10	-	0.03	0.07	●			
GFR 1.2J -10D	1.20	0.14	-	10	0.03	0.07			●	
GFR 1.6JS- 6D	1.60	0.02	-	6	0.03	0.08		●	●	●
GFL 1.6JS-15D	1.60	0.02	15	-	0.03	0.05		●		
GFR 1.6JS-15D	1.60	0.02	-	15	0.03	0.05		●	●	●
GFL 1.6J - 6D	1.60	0.16	15	-	0.03	0.07		●		
GFR 1.6J - 6D	1.60	0.16	-	6	0.03	0.07		●		●
GFL 1.6J - 8D	1.60	0.16	8	-	0.03	0.07		●		
GFR 1.6J - 8D	1.60	0.16	-	8	0.03	0.07		●		●
GFL 2J - 6D	2.00	0.16	6	-	0.03	0.10		●	●	●
GFR 2J - 6D	2.00	0.16	-	6	0.03	0.10		●	●	●
GFL 2JS - 4D	2.00	0.02	4	-	0.03	0.10		●		
GFR 2JS - 4D	2.00	0.02	-	4	0.03	0.10			●	
GFR 2JS - 6D	2.00	0.02	-	6	0.03	0.10		●	●	
GFL 2JS -10D	2.00	0.02	10	-	0.03	0.08		●	●	
GFR 2JS -10D	2.00	0.02	-	10	0.03	0.08		●	●	●
GFR 2JS -15D	2.00	0.02	-	15	0.03	0.08		●		

SELF-GRIP

SGFH/R/L

SELF-GRIP Blades with and without Coolant Holes for Parting and Grooving with Single-Ended Inserts

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT



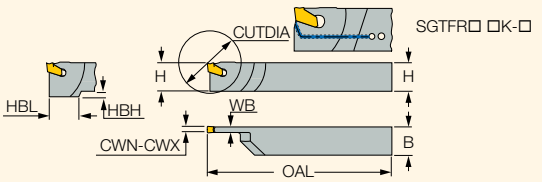
Designation	H	CWN	CWX	CUTDIA	WB	WB_2	OAL	HF
SGFH 19-1.2	19.0	1.20	1.20	18	0.9	1.6	86	15.7
SGFH 19-1	19.0	1.60	1.60	32	1.2	1.6	86	15.7
SGFH 19-2	19.0	1.80	2.69	38	-	1.6	86	15.7
SGFH 26-1.2	26.0	1.20	1.20	20	0.9	1.6	110	21.4
SGFH 26-1	26.0	1.60	1.60	35	1.2	1.6	110	21.4
SGFH 26-2	26.0	1.80	2.69	50	-	1.6	110	21.4
SGFH 32-1	32.0	1.60	1.60	38	1.2	2.4	150	24.8
SGFH 32-2	32.0	1.80	2.69	50	1.6	2.4	150	24.8

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

SELF-GRIP

SGTFR/L

SELF-GRIP, Integral Shank
Tool for Parting and Grooving



Left-hand shown

Designation	H	CWN(1)	CWX	CUTDIA	B	WB	OAL	HBL	HBH	HAND	MIID
SGTFL 1010-1.6	10.0	1.60	1.60	28	10	1.2	86	15	4	L	GFN 1.6
SGTFR 1010-1.6	10.0	1.60	1.60	28	10	1.2	86	15	4	R	GFN 1.6
SGTFL 1010-2	10.0	1.80	2.69	28	10	1.6	86	17	6	L	GFN 2
SGTFR 1010-2	10.0	1.80	2.69	28	10	1.6	86	17	6	R	GFN 2
SGTFL 1212-1.6	12.0	1.60	1.60	30	12	1.2	110	-	0	L	GFN 1.6
SGTFR 1212-1.6	12.0	1.60	1.60	30	12	1.2	110	-	0	R	GFN 1.6
SGTFL 1212-2	12.0	1.80	2.69	32	12	1.6	110	19	4	L	GFN 2
SGTFR 1212-2	12.0	1.80	2.69	32	12	1.6	110	19	4	R	GFN 2
SGTFL 2012-2	20.0	1.80	2.69	35	12	1.6	110	-	0	L	GFN 2
SGTFR 2012-2	20.0	1.80	2.69	35	12	1.6	110	-	0	R	GFN 2

(1) Minimum cutting width Maximum cutting width

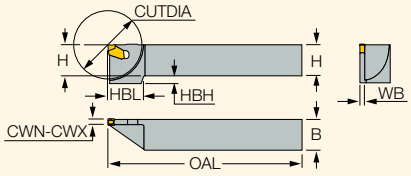
- 10, 12 and 16 mm shank sizes are used for automatics.

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

SELF-GRIP

SGTFR/L-D

SELF-GRIP, Reinforced Tool
for Parting and Grooving



Left-hand shown

Designation	H	CWN(1)	CWX	CUTDIA	B	WB	OAL	HBL	HBH	HAND	MIID
SGTFR 1212-2D 30	12.0	1.80	2.69	30	12	1.7	150	17	4	R	GFN 2

(1) Minimum cutting width Maximum cutting width

Spare Parts

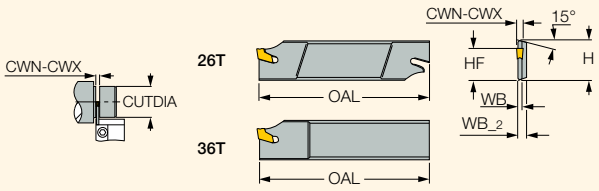
Designation	
SGTFR/L-D	SET ESG 1

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

SELF-GRIP

SGFHR/L-26T/32T

SELF-GRIP F-Type,
Double- and Single-Ended,
Reinforced Holder Blades



Right-hand shown

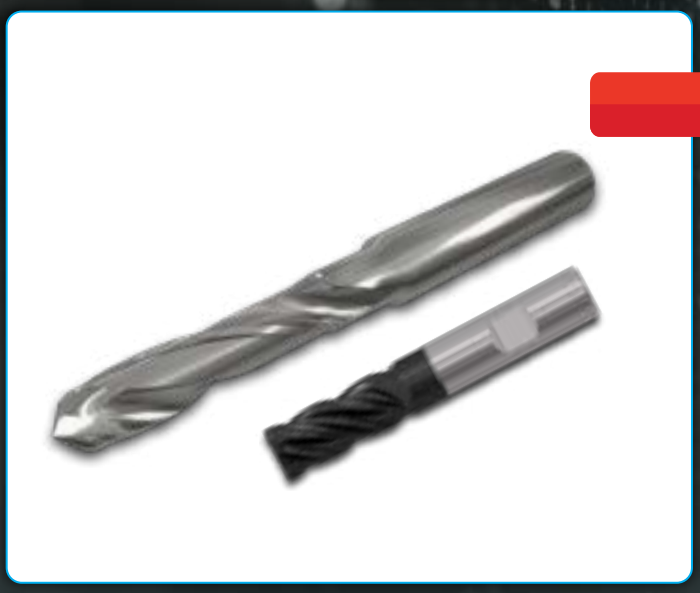
Designation	H	CWN(5)	CWX(6)	WB_2	WB	OAL	HF	CUTDIA	Machines	MIID
SGFHR 26 T 16 - 1.6(1)	26.0	1.60	1.60	8	1.2	110	21.4	30	TNS-30	GFN 1.6
SGFHL 26 T 16 - 2(1)	26.0	1.80	2.69	8	1.6	110	21.4	30	TNS-30	GFN 2
SGFHR 26 T 16 - 2(1)	26.0	1.80	2.69	8	1.6	110	21.4	30	TNS-30	GFN 2
SGFHL 26 T 23 - 1.6(2)	26.0	1.60	1.60	8	1.2	110	21.4	42	TNS-30/42	GFN 1.6
SGFHR 26 T 23 - 1.6(2)	26.0	1.60	1.60	8	1.2	110	21.4	42	TNS-30/42	GFN 1.6
SGFHL 26 T 23 - 2(3)	26.0	1.80	2.69	8	1.2	110	21.4	42	TNS-30/112	GFN 2
SGFHR 26 T 23 - 2(3)	26.0	1.80	2.69	8	1.6	110	21.4	42	TNS-30/112	GFN 2
SGFHL 32 T 22 - 2(4)	32.0	1.80	2.69	8	1.6	110	24.8	42	TNS-42	GFN 2
SGFHR 32 T 22 - 2(4)	32.0	1.80	2.69	8	1.6	110	24.8	42	TNS-42	GFN 2

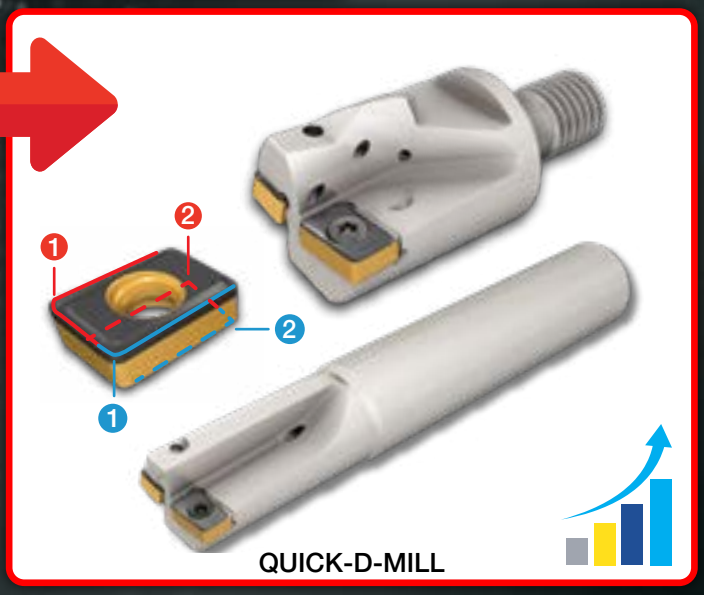
(1) For Traub machines, model TNS-30.
(2) For Traub machines, model TNS-30/42.
(3) For Traub machines, model TNS-30/112.
(4) For Traub machines, model TNS-42.
(5) Minimum cutting width
(6) Maximum cutting width

- B1 dimension links blades and blocks.

MAXVALUE

MINIMUM COST MAXIMUM OUTPUT





The ultimate all-in-one indexable tool, combining milling and drilling to **increase versatility, maximize insert utilization, and improve cost efficiency.**



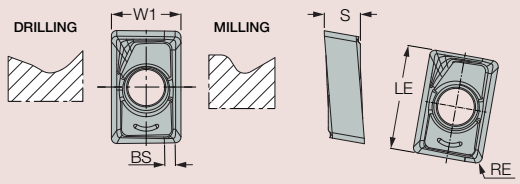
QUICKDMILL

MDR ANHU FR-P

Inserts With Sharp Cutting Edge and Polished Rake Face for ISO N Applications (for machining non-ferrous materials)

MAXVALUE MINIMUM COST MAXIMUM OUTPUT





Designation	Dimensions W1	LE	S	BS	RE	IC08	Recommended Machining Data f_z (mm/t)
MDR ANHU 070304FR-P	5.20	7.80	2.70	0.80	0.45	●	0.05-0.20
MDR ANHU 090305FR-P	6.30	9.40	2.95	0.80	0.50	●	0.05-0.25
MDR ANHU 120408FR-P	7.50	12.40	3.85	0.80	0.80	●	0.05-0.30

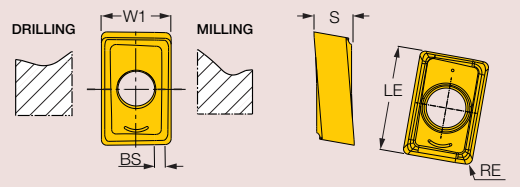
QUICKDMILL

MDR ANMU PNTR

Double-Sided Rectangle Inserts with 2 Center Cutting Edges for Drilling and 2 Peripheral Cutting Edges for Milling

MAXVALUE MINIMUM COST MAXIMUM OUTPUT





Designation	Dimensions W1	LE	S	BS	RE	Tough ↔ Hard IC882	IC328	IC830	IC808	IC810	Recommended Machining Data f_z (mm/t)
MDR ANMU 070304PNTR	5.20	7.80	2.70	0.80	0.40	●	●	●	●	●	0.05-0.20
MDR ANMU 090305PNTR	6.30	9.40	3.15	0.80	0.50	●	●	●	●	●	0.05-0.23
MDR ANMU 120408PNTR	7.50	12.40	4.07	0.80	0.80	●	●	●	●	●	0.05-0.25
MDR ANMU 160508PNTR	9.50	15.80	5.14	1.00	0.80		●	●	●	●	0.05-0.28

MAXVALUE MINIMUM COST MAXIMUM OUTPUT

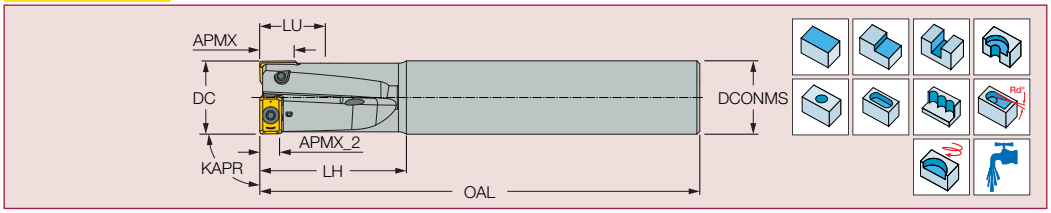


QUICK D MILL

MDR D-C-AN

MULTI-FUNCTION
Endmill Cutters

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT



Designation	DC	APMX	APMX_2	KAPR(1)	CICT(2)	LU(3)	LH	OAL	DCONMS	Shank	CSP(4)	MDN(5)	MDX(6)	MIID(7)	kg
MDR D16-2-C16-AN07	16.00	7.30	4.70	90.0	2	12.00	30.0	130.00	16.00	C	1	16.80	30.80	MDR ANMU 07...	0.14
MDR D20-2-C20-AN09	20.00	8.90	5.70	90.0	2	15.00	35.0	145.00	20.00	C	1	21.80	38.20	MDR ANMU 09...	0.30
MDR D25-2-C25-AN12	25.00	11.50	6.50	90.0	2	18.50	50.0	150.00	25.00	C	1	26.30	47.60	MDR ANMU 12...	0.47
MDR D32-2-C32-AN16	32.00	14.90	8.50	90.0	2	23.50	50.0	150.00	32.00	C	1	33.30	60.90	MDR ANMU 16...	0.73

- When drilling holes deeper than 5 mm, it is recommended to use the pecking method (G83)

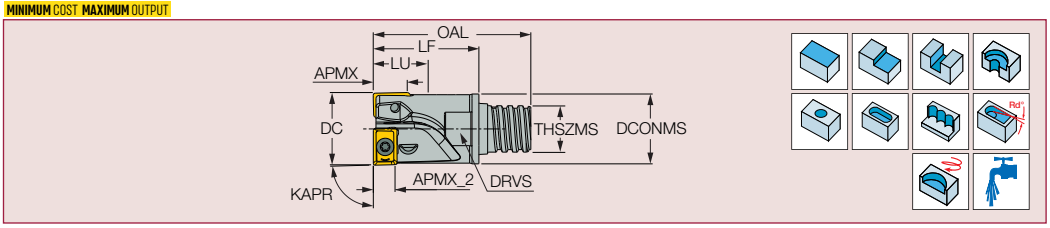
(1) Tool cutting edge angle
(2) Number of inserts (or edges for solid tool)
(3) Max.drilling depth
(4) 0 - Without coolant supply, 1 - With coolant supply
(5) Minimum diameter to obtain a flat-bottom pocket having no protrusions by use of helical or circular interpolation
(6) Maximum diameter to obtain a flat-bottom pocket having no protrusions by use of helical or circular interpolation
(7) Master insert identification

QUICK D MILL

MDR MMT-JHP

MULTI-FUNCTION Modular
Head for Endmill Cutters
with a MULTI-MASTER
Threaded Adaptation

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT



Designation	DC	APMX	APMX_2	KAPR(1)	CICT(2)	LU(3)	LF	OAL	THSZMS	DCONMS	DRVS(4)	RMPX°(5)	MDN(6)	MDX(7)	MIID(8)	CSP(9)	kg
MDR D16/.63-2-MMT10-07JHP	16.00	7.30	4.70	90.0	2	12.00	23.00	34.30	T10	15.20	13.0	90.0	16.80	30.80	MDR ANMU 07...	1	0.07
MDR D20/.79-2-MMT12-09JHP	20.00	8.90	5.70	90.0	2	15.00	24.70	38.00	T12	18.30	16.0	90.0	21.80	38.20	MDR ANMU 09...	1	0.08
MDR D25/.98-2-MMT15-12JHP	25.00	11.50	6.50	90.0	2	18.50	33.00	50.00	T15	23.90	20.0	90.0	26.30	47.60	MDR ANMU 12...	1	0.08

- Do not apply lubricant to the MULTI-MASTER threaded connection
- When drilling holes deeper than 5 mm, it is recommended to use the pecking method (G83)

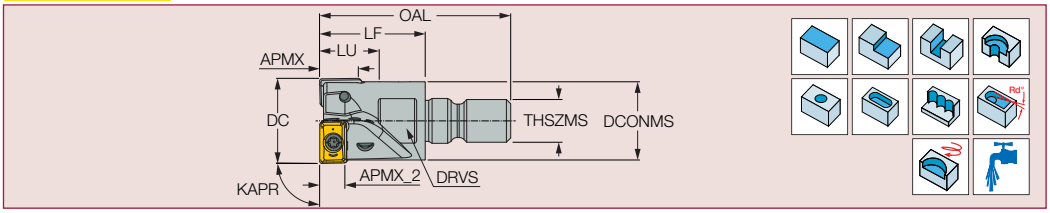
(1) Tool cutting edge angle
(2) Number of inserts (or edges for solid tool)
(3) Max.drilling depth
(4) Torque key size
(5) Maximum ramping angle
(6) Minimum diameter to obtain a flat-bottom pocket having no protrusions by use of helical or circular interpolation
(7) Maximum diameter to obtain a flat-bottom pocket having no protrusions by use of helical or circular interpolation
(8) Master insert identification
(9) 0 - Without coolant supply, 1 - With coolant supply

QUICK D MILL

MDR M-JHP

MULTI-FUNCTION Modular
Head for Endmill Cutters with a
FLEX-FIT Threaded Adaptation

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT



Designation	DC	APMX	APMX_2	KAPR(1)	CICT(2)	LU	LF	OAL	THSZMS	DCONMS	DRVS(3)	RMPX°(4)	MDN (5)	MDX (6)	TQ_3(7)	MIID(8)	CSP(9)	kg
MDR D20/.79-2-M10-09JHP	20.00	8.90	5.70	90.0	2	15.00	24.70	44.70	M10	18.30	18.0	90.0	21.80	38.20	29	MDR ANMU 09...	1	0.18
MDR D25/.98-2-M12-12JHP	25.00	11.50	6.50	90.0	2	18.50	33.00	55.00	M12	24.00	21.0	90.0	26.30	47.60	33	MDR ANMU 12...	1	0.18
MDR D32/1.26-2-M16-16JHP	32.00	14.50	8.70	90.0	2	23.50	40.00	65.00	M16	30.00	25.1	90.0	33.30	61.60	40	MDR ANMU 16...	1	0.16

- Before mounting the FLEX-FIT adaptation, clean the mating surfaces and threads. Tighten to eliminate gaps, using the torque value from TQ_3.
- When drilling holes deeper than 5mm, it is recommended to use the pecking method (G83).

(1) Tool cutting edge angle
(2) Number of inserts (or edges for solid tool)
(3) Torque key size
(4) Maximum ramping angle
(5) Minimum diameter to obtain a flat-bottom pocket having no protrusions by use of helical or circular interpolation
(6) Maximum diameter to obtain a flat-bottom pocket having no protrusions by use of helical or circular interpolation
(7) Tool tightening torque Nxm
(8) Master insert identification
(9) 0 - Without coolant supply, 1 - With coolant supply

MAXVALUE

MINIMUM COST MAXIMUM OUTPUT





HELI-DO

A smart, cost-saving solution for indexable face milling, delivering **greater part-making capability with fewer tools to stock** and the right tool for the job **with outstanding value and efficiency.**

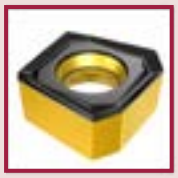


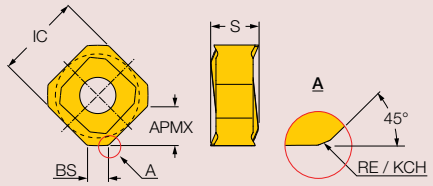
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

HELIDO 800 LINE

S845 SNMU/SNHU-13

Double-Sided Square Inserts with 8 Cutting Edges





Designation	Dimensions IC	APMX	S	BS	RE	KCH	Tough ↔ Hard IC330	IC830	IC5500	IC808	IC810	IC5400	DT7150	IC5100	Recommended Machining Data a_p (mm)	f_z (mm/t)
S845 SNMU 1305ANTR (1)	13.00	6.00	6.20	3.00	0.80	-					●		●	●	2.00-6.00	0.20-0.40
S845 SNMU 1305ANR-MM	13.00	6.00	6.20	3.00	0.80	-	●	●		●		●			2.00-6.00	0.20-0.40
S845 SNMU 1305ANR-RM	13.00	6.00	6.12	3.00	1.20	-					●				2.00-6.00	0.20-0.40
S845 SNHU 1305ANTR (1)	13.00	6.00	6.20	3.00	0.80	-					●				2.00-6.00	0.15-0.30
S845 SNHU 1305ANR-MM	13.00	6.00	6.20	3.00	0.80	-	●	●	●	●		●			2.00-6.00	0.15-0.30
S845 SNHU 1305ANR-PL (2)	13.00	6.00	6.00	2.20	-	45.0 (3)	●	●							2.00-6.00	0.15-0.30

• S845 SNHU - Precision ground • S845 SNMU - Utility

(1) For cast iron

(2) For high temperature alloys and stainless steel

(3) See detail

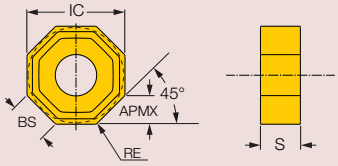
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

HELIDO 800 LINE

ONHU/ONMU-05

Octagonal Double-Sided Inserts with 16 Cutting Edges





Designation	Dimensions BS	IC	APMX	S	RE	Tough ↔ Hard IC1011	IC330	IC830	IC808	IC810	IC5400	DT7150	IC5100	Recommended Machining Data a_p (mm)	f_z (mm/t)
ONHU 050500-PL (1)	4.50	13.00	3.50	5.08	-		●	●						1.50-3.00	0.15-0.20
ONHU 050500-R-HP	4.50	13.00	3.50	5.08	-			●						1.50-3.00	0.20-0.25
ONHU 050505-TN (2)	5.00	13.00	3.50	5.08	0.50		●	●	●	●				1.50-3.00	0.15-0.30
ONHU 050505-TN-MM (3)	5.00	13.00	3.50	5.08	0.50		●	●	●					1.50-3.00	0.20-0.30
ONMU 050505-TN (2)	5.00	13.00	3.50	5.08	0.50	●				●		●	●	1.50-3.00	0.15-0.30
ONMU 050505-TN-MM (3)	5.00	13.00	3.50	5.08	0.50		●	●	●		●			1.50-3.00	0.20-0.30

• ONHU - Precision ground • ONMU - Utility

(1) For stainless steel and high temperature alloys

(2) For cast iron

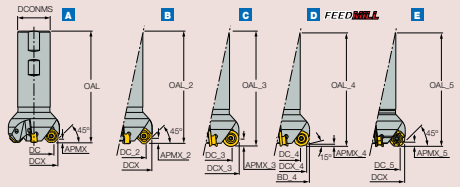
(3) For general applications

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

HELIDO 800 LINE

SOE45 8/16

Multifunctional Endmills for Octagonal, Square and Round Insert Contours with Several Entry Angles



Designation	DC	DC_2	DC_3	DC_4	DC_5	DCX(1)	DCX_3	DCX_4	BD_4	APMX	APMX_2	APMX_3	APMX_4	APMX_5
SOE45 8/16-D025-02-W20R	25.00	22.65	20.90	20.10	25.30	35.40	36.50	29.40	35.60	3.50	6.00	7.90	1.20	2.90
SOE45 8/16-D032-03-W25R	32.00	29.65	27.50	26.70	32.30	42.40	43.30	36.20	42.60	3.50	6.00	7.90	1.20	2.90
SOE45 8/16-D040-04-W32R	40.00	37.65	35.40	37.50	40.30	50.40	51.30	47.00	50.60	3.50	6.00	7.90	1.20	2.90

Designation	DCONMS	CICT(2)	OAL	OAL_2	OAL_3	OAL_4	OAL_5	CSP(3)	RMPX°(4)	kg
SOE45 8/16-D025-02-W20R	20.00	2	100.00	101.2	101.60	101.30	101.20	1	3.1	0.25
SOE45 8/16-D032-03-W25R	25.00	3	100.00	101.2	101.60	101.30	101.20	1	4.2	0.38
SOE45 8/16-D040-04-W32R	32.00	4	110.00	111.2	111.60	111.30	111.20	1	3.7	0.72

• A- with ONMU 0505... insert • B- with S845 SNMU 1305... insert • C- with RXMT 1607N insert • D- with OXMT 0507R08-FF insert

• E- with OXMT 050705-R-HP insert • Use only Torx Plus keys

(1) Cutting diameter maximum

(2) Number of inserts (or edges for solid tool)

(3) 0 - Without coolant supply, 1 - With coolant supply

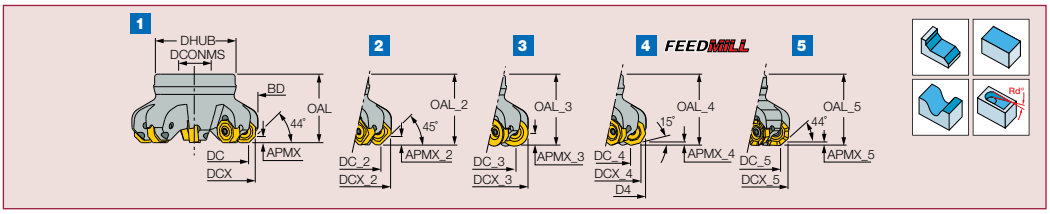
(4) Maximum ramping angle - valid only with RXMT 1607N insert

HELIDO 800 LINE

SOF45

MULTI-FUNCTION Face Mills for Octagonal, Square and Round Insert Contours with Various Entry Angles

MAXVALUE MINIMUM COST MAXIMUM OUTPUT



Designation	BD	DC	DCX(1)	DC_2	DCX_2	DC_3	DCX_3	DC_4	DCX_4	D4	DC_5	DCX_5	APMX	APMX_2	APMX_3
SOF45 8/16-D040-04-22R	50.40	40.00	48.00	37.65	50.40	35.40	51.20	34.50	44.00	50.50	40.30	50.0	3.50	6.00	7.90
SOF45 8/16-D050-04-22R	60.40	50.00	58.00	47.65	60.40	45.40	61.20	44.50	54.00	60.50	50.30	60.0	3.50	6.00	7.90
SOF45 8/16-D050-06-22R	60.40	50.00	58.00	47.65	60.40	45.40	61.20	44.50	54.00	60.50	50.30	60.0	3.50	6.00	7.90
SOF45 D050-04-22-R13	62.75	52.35	60.35	50.00	62.75	47.75	63.55	46.95	56.35	62.90	52.65	62.4	3.50	6.00	7.90
SOF45 8/16-D063-04-22R	73.40	63.00	71.00	60.65	73.40	58.40	74.20	57.50	67.00	73.50	63.30	73.0	3.50	6.00	7.90
SOF45 8/16-D063-06-22R	73.40	63.00	71.00	60.65	73.40	58.40	74.20	57.50	67.00	73.50	63.30	73.0	3.50	6.00	7.90
SOF45 8/16-D063-08-22R	73.40	63.00	71.00	60.65	73.40	58.40	74.20	57.50	67.00	73.50	63.30	73.0	3.50	6.00	7.90
SOF45 D063-06-22-R13	75.75	65.35	72.35	63.00	75.75	60.75	76.55	59.95	69.35	75.90	63.65	75.3	3.50	6.00	7.90
SOF45 8/16-D080-07-27R	90.40	80.00	88.00	77.65	90.40	65.40	91.20	74.50	84.00	90.50	80.30	90.0	3.50	6.00	7.90
SOF45 8/16-D080-10-27R	90.40	80.00	88.00	77.65	90.40	65.40	91.20	74.50	84.00	90.50	80.30	90.0	3.50	6.00	7.90
SOF45 D080-07-27-R13	92.75	82.35	90.35	80.00	92.75	77.60	93.40	76.95	86.35	92.90	82.65	92.3	3.50	6.00	7.90
SOF45 8/16-D100-08-32R	110.40	100.00	108.00	97.65	110.40	95.40	111.20	94.50	104.00	110.50	100.30	110.0	3.50	6.00	7.90
SOF45 8/16-D100-12-32R	110.40	100.00	108.00	97.65	110.40	95.40	111.20	94.50	104.00	110.50	100.30	110.0	3.50	6.00	7.90
SOF45 D100-08-32-R13	112.75	102.35	110.35	100.00	112.75	97.75	113.55	96.95	106.35	112.90	102.65	112.3	3.50	6.00	7.90
SOF45 8/16-D125-10-40R	135.40	125.00	133.00	122.65	135.40	120.40	136.20	119.50	129.00	135.50	125.30	135.0	3.50	6.00	7.90
SOF45 8/16-D125-16-40R	135.40	125.00	133.00	122.65	135.40	120.40	136.20	119.50	129.00	135.50	125.30	135.0	3.50	6.00	7.90
SOF45 D125-10-40-R13	137.75	127.35	135.35	125.00	137.75	122.75	138.55	121.95	131.35	137.90	127.65	137.3	3.50	6.00	7.90
SOF45 8/16-D160-12-40R	170.40	160.00	168.00	157.65	170.40	155.40	171.20	154.50	164.00	171.50	160.30	170.0	3.50	6.00	7.90
SOF45 8/16-D200-14-60R	210.40	200.00	208.00	197.65	210.40	195.40	211.20	194.50	204.00	211.50	200.50	210.0	3.50	6.00	7.90
SOF45 8/16-D250-16-60R	260.40	250.00	258.00	247.65	260.40	245.40	261.20	244.50	254.00	261.50	250.30	260.0	3.50	6.00	7.90

Designation	APMX_4	APMX_5	OAL	OAL_2	OAL_3	OAL_4	OAL_5	CICT(2)	DHUB	DCONMS
SOF45 8/16-D040-04-22R	1.20	2.90	40.00	41.2	41.60	41.30	41.20	4	45.00	22.00
SOF45 8/16-D050-04-22R	1.20	2.90	40.00	41.2	41.60	41.30	41.20	4	48.00	22.00
SOF45 8/16-D050-06-22R	1.20	2.90	40.00	41.2	41.60	41.30	41.20	6	48.00	22.00
SOF45 D050-04-22-R13	1.20	2.90	38.80	40.0	40.40	40.10	40.20	4	48.00	22.00
SOF45 8/16-D063-04-22R	1.20	2.90	40.00	41.2	41.60	41.30	41.20	4	48.00	22.00
SOF45 8/16-D063-06-22R	1.20	2.90	40.00	41.2	41.60	41.30	41.20	6	48.00	22.00
SOF45 8/16-D063-08-22R	1.20	2.90	40.00	41.2	41.60	41.30	41.20	8	48.00	22.00
SOF45 D063-06-22-R13	1.20	2.90	38.80	40.0	40.40	40.10	40.20	6	48.00	22.00
SOF45 8/16-D080-07-27R	1.20	2.90	50.00	51.2	51.60	51.30	51.20	7	60.00	27.00
SOF45 8/16-D080-10-27R	1.20	2.90	50.00	51.2	51.60	51.30	51.20	10	60.00	27.00
SOF45 D080-07-27-R13	1.20	2.90	48.80	50.0	50.40	50.10	50.20	7	60.00	27.00
SOF45 8/16-D100-08-32R	1.20	2.90	50.00	51.2	51.60	51.30	51.20	8	70.00	32.00
SOF45 8/16-D100-12-32R	1.20	2.90	50.00	51.2	51.60	51.30	51.20	12	70.00	32.00
SOF45 D100-08-32-R13	1.20	2.90	48.80	50.0	50.40	50.10	50.00	8	70.00	32.00
SOF45 8/16-D125-10-40R	1.20	2.90	63.00	64.2	64.60	64.30	64.20	10	82.00	40.00
SOF45 8/16-D125-16-40R	1.20	2.90	63.00	64.2	64.60	64.30	64.20	16	82.00	40.00
SOF45 D125-10-40-R13	1.20	2.90	61.80	63.0	63.40	63.10	63.20	10	82.00	40.00
SOF45 8/16-D160-12-40R	1.20	2.90	63.00	64.2	64.60	64.30	64.20	12	92.00	40.00
SOF45 8/16-D200-14-60R	1.20	2.90	63.00	64.2	64.60	64.30	64.20	14	135.00	60.00
SOF45 8/16-D250-16-60R	1.20	2.90	63.00	64.2	64.60	64.30	64.20	16	137.00	60.00

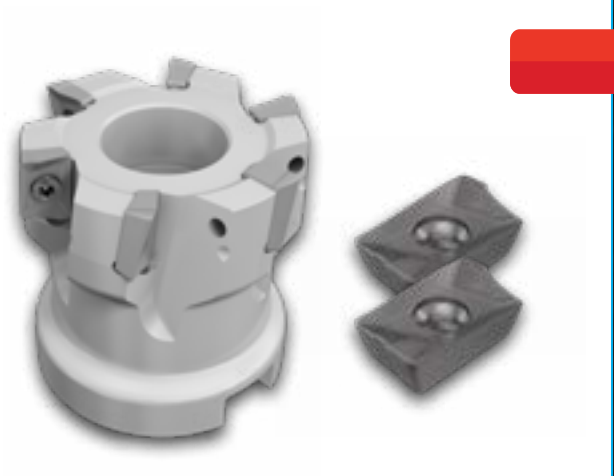
Designation	RMPX°_3(3)	Arbor(4)	CSP(5)	MIID(6)	MIID_2(7)	MIID_3(8)	MIID_4(9)	MIID_5(10)	kg
SOF45 8/16-D040-04-22R	3.7	A	1	ONHU 050500-PL	S845 SNHU 1305ANR-M	RXMT 1607N	OXMT 0507R08-FF	OXMT 050705-R-HP	0.29
SOF45 8/16-D050-04-22R	5.6	A	1	ONHU 050500-PL	S845 SNHU 1305ANR-M	RXMT 1607N	OXMT 0507R08-FF	OXMT 050705-R-HP	0.39
SOF45 8/16-D050-06-22R	5.6	A	1	ONHU 050500-PL	S845 SNHU 1305ANR-M	RXMT 1607N	OXMT 0507R08-FF	OXMT 050705-R-HP	0.38
SOF45 D050-04-22-R13	5.4	A	1	ONHU 050500-PL	S845 SNHU 1305ANR-M	RXMT 1607N	OXMT 0507R08-FF	OXMT 050705-R-HP	0.38
SOF45 8/16-D063-04-22R	6.3	A	1	ONHU 050500-PL	S845 SNHU 1305ANR-M	RXMT 1607N	OXMT 0507R08-FF	OXMT 050705-R-HP	0.54
SOF45 8/16-D063-06-22R	6.3	B	0	ONHU 050500-PL	S845 SNHU 1305ANR-M	RXMT 1607N	OXMT 0507R08-FF	OXMT 050705-R-HP	0.47
SOF45 8/16-D063-08-22R	6.3	B	0	ONHU 050500-PL	S845 SNHU 1305ANR-M	RXMT 1607N	OXMT 0507R08-FF	OXMT 050705-R-HP	0.46
SOF45 D063-06-22-R13	5.7	B	1	ONHU 050500-PL	S845 SNHU 1305ANR-M	RXMT 1607N	OXMT 0507R08-FF	OXMT 050705-R-HP	0.50
SOF45 8/16-D080-07-27R	6.2	B	0	ONHU 050500-PL	S845 SNHU 1305ANR-M	RXMT 1607N	OXMT 0507R08-FF	OXMT 050705-R-HP	1.01
SOF45 8/16-D080-10-27R	6.2	B	0	ONHU 050500-PL	S845 SNHU 1305ANR-M	RXMT 1607N	OXMT 0507R08-FF	OXMT 050705-R-HP	0.96
SOF45 D080-07-27-R13	6.0	B	1	ONHU 050500-PL	S845 SNHU 1305ANR-M	RXMT 1607N	OXMT 0507R08-FF	OXMT 050705-R-HP	1.00
SOF45 8/16-D100-08-32R	4.7	B	0	ONHU 050500-PL	S845 SNHU 1305ANR-M	RXMT 1607N	OXMT 0507R08-FF	OXMT 050705-R-HP	1.39
SOF45 8/16-D100-12-32R	4.7	B	0	ONHU 050500-PL	S845 SNHU 1305ANR-M	RXMT 1607N	OXMT 0507R08-FF	OXMT 050705-R-HP	1.35
SOF45 D100-08-32-R13	4.6	B	1	ONHU 050500-PL	S845 SNHU 1305ANR-M	RXMT 1607N	OXMT 0507R08-FF	OXMT 050705-R-HP	1.47
SOF45 8/16-D125-10-40R	3.6	B	0	ONHU 050500-PL	S845 SNHU 1305ANR-M	RXMT 1607N	OXMT 0507R08-FF	OXMT 050705-R-HP	2.63
SOF45 8/16-D125-16-40R	3.6	B	0	ONHU 050500-PL	S845 SNHU 1305ANR-M	RXMT 1607N	OXMT 0507R08-FF	OXMT 050705-R-HP	2.53
SOF45 D125-10-40-R13	3.5	B	1	ONHU 050500-PL	S845 SNHU 1305ANR-M	RXMT 1607N	OXMT 0507R08-FF	OXMT 050705-R-HP	2.63
SOF45 8/16-D160-12-40R	2.6	C	0	ONHU 050500-PL	S845 SNHU 1305ANR-M	RXMT 1607N	OXMT 0507R08-FF	OXMT 050705-R-HP	3.35
SOF45 8/16-D200-14-60R	2.0	C	0	ONHU 050500-PL	S845 SNHU 1305ANR-M	RXMT 1607N	OXMT 0507R08-FF	OXMT 050705-R-HP	5.77
SOF45 8/16-D250-16-60R	1.5	C	0	ONHU 050500-PL	S845 SNHU 1305ANR-M	RXMT 1607N	OXMT 0507R08-FF	OXMT 050705-R-HP	7.98

• 1- with ONMU 0505... insert • 2- with S845 SNMU 1305... insert • 3- with RXMT 1607N insert • 4- with OXMT 0507R08-FF insert
• 5- with OXMT 050705-R-HP insert • Use only Torx Plus keys

(1) Cutting diameter maximum
(2) Number of inserts (or edges for solid tool)
(3) Valid only with RXMT 1607N insert
(4) Adaptation
(5) 0 - Without coolant supply, 1 - With coolant supply
(6) Master insert identification
(7) Master insert identification 2
(8) Master insert identification 3
(9) Master insert identification 4
(10) Master insert identification 5

MAXVALUE

MINIMUM COST MAXIMUM OUTPUT





HELI-TANG

This miniature, double-sided tangential insert with 4 cutting edges offers a **cost-effective solution for milling at shallow depths.**



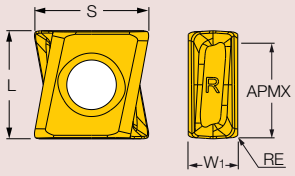
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

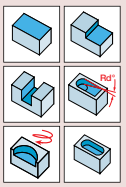
HELITANG T490 LINE

T490 LNMT 0502

Tangentially Clamped Inserts with 4 Helical Cutting Edges







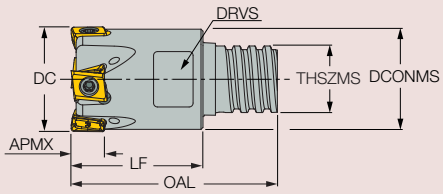
Designation	Dimensions W1	L	APMX	RE	S	Tough ↔ Hard IC830	IC808	IC810	IC5600	Recommended Machining Data f_z (mm/t)
T490 LNMT 0502PNR-RD	2.30	5.02	4.60	0.40	5.30	•	•	•	•	0.08-0.12

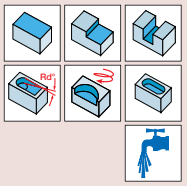
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

HELITANG T490 LINE

T490 ELN-MM-05

90° Endmills with a MULTI-MASTER Threaded Adaptation Carrying Tangentially Clamped Inserts with 4 Helical Cutting Edges





Designation	DC	CICT(1)	APMX	DCONMS	LF	OAL	THSZMS	DRVS(2)	RMPX°(3)	CSP(4)	kg	MIID(5)		
T490 ELN D10-2-MMT06-05	10.00	2	4.60	9.20	13.00	19.30	T06	8.0	1.3	1	0.01	T490 LNMT 0502PNR-RD	SR M2X0.4-3.8 IP6	T-6IP/51
T490 ELN D12-3-MMT08-05	12.00	3	4.60	11.00	14.50	22.00	T08	10.0	0.9	1	0.01	T490 LNMT 0502PNR-RD	SR M2X0.4-4.8 IP6	T-6IP/51
T490 ELN D16-4-MMT10-05	16.00	4	4.60	15.20	20.00	31.30	T10	13.0	0.6	1	0.03	T490 LNMT 0502PNR-RD	SR M2X0.4-4.8 IP6	T-6IP/51
T490 ELN D20-5-MMT12-05	20.00	5	4.60	19.20	22.00	35.30	T12	16.0	0.5	1	0.05	T490 LNMT 0502PNR-RD	SR M2X0.4-4.8 IP6	T-6IP/51

- Do not apply lubricant to the MULTI-MASTER threaded connection

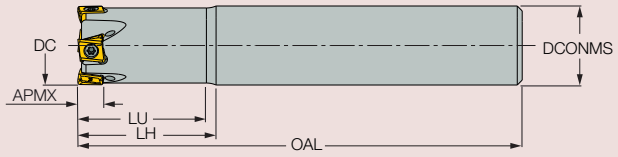
(1) Number of inserts (or edges for solid tool)
(2) Torque key size
(3) Maximum ramping angle
(4) 0 - Without coolant supply, 1 - With coolant supply
(5) Master insert identification

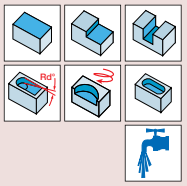
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

HELITANG T490 LINE

T490 ELN-05

90° Endmills Carrying Tangentially Clamped Inserts with 4 Helical Cutting Edges





Designation	DC	CICT(1)	OAL	LH	LU	APMX	DCONMS	Shank	RMPX°(2)	CSP(3)	MIID(4)		
T490 ELN D10-2-C10-05	10.00	2	80.00	21.0	20.1	4.60	10.00	C	1.3	1	T490 LNMT 0502PNR-RD	SR M2X0.4-3.8 IP6	T-6IP/51
T490 ELN D12-3-C12-05	12.00	3	80.00	25.5	23.3	4.60	12.00	C	0.9	1	T490 LNMT 0502PNR-RD	SR M2X0.4-4.8 IP6	T-6IP/51
T490 ELN D16-4-C16-05	16.00	4	90.00	28.0	26.0	4.60	16.00	C	0.6	1	T490 LNMT 0502PNR-RD	SR M2X0.4-4.8 IP6	T-6IP/51
T490 ELN D20-5-C20-05	20.00	5	110.00	27.0	25.5	4.60	20.00	C	0.5	1	T490 LNMT 0502PNR-RD	SR M2X0.4-4.8 IP6	T-6IP/51
T490 ELN D25-6-C25-05	25.00	6	120.00	30.0	28.5	4.60	25.00	C	0.4	1	T490 LNMT 0502PNR-RD	SR M2X0.4-4.8 IP6	T-6IP/51

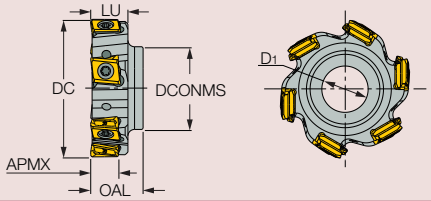
(1) Number of inserts (or edges for solid tool)
(2) Maximum ramping angle
(3) 0 - Without coolant supply, 1 - With coolant supply
(4) Master insert identification

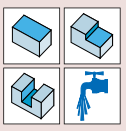
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

HELITANG T490 LINE

T490 FM-05

90° Face Mills with a SP Connection Carrying Tangentially Clamped Inserts with 4 Helical Cutting Edges





Designation	DC	CICT(1)	APMX	OAL	LU	DCONMS	D1	CSP(2)	MIID(3)
T490 FM D025-06-SP15-05	25.00	6	4.60	9.50	6.75	15.00	8.40	1	T490 LNMT 0502PNR-RD
T490 FM D032-08-SP17-05	32.00	8	4.60	10.50	6.75	17.00	9.80	1	T490 LNMT 0502PNR-RD
T490 FM D040-10-SP19-05	40.00	10	4.60	14.10	6.75	19.00	9.80	1	T490 LNMT 0502PNR-RD
T490 FM D050-12-SP19-05	50.00	12	4.60	14.10	6.75	19.00	9.80	1	T490 LNMT 0502PNR-RD

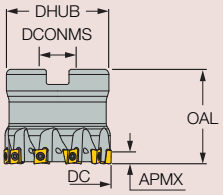
(1) Number of inserts (or edges for solid tool)
(2) 0 - Without coolant supply, 1 - With coolant supply
(3) Master insert identification

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

HELITANG T490 LINE

T490 FLN-05

Face Mills Carrying Tangentially Clamped Inserts with 4 Helical Cutting Edges





Designation	DC	CICT	APMX	OAL	DHUB	DCONMS	Arbor	CSP	kg
T490 FLN D032-08-16-05	32.00	8	4.60	35.00	30.40	16.00	A	1	0.12
T490 FLN D040-10-16-05	40.00	10	4.60	35.00	38.00	16.00	A	1	0.22
T490 FLN D050-12-22-05	50.00	12	4.60	40.00	48.00	22.00	A	1	0.40

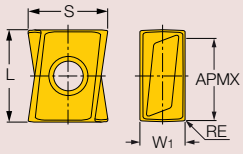
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

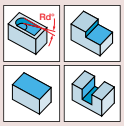
HELITANG T490 LINE

T490 LNMT/LNHT 0804

Tangentially Clamped Inserts with 4 Helical Cutting Edges







Designation	Dimensions W1	L	APMX	RE(4)	S	Tough ↔ Hard IC1011	IC330	IC845	IC830	IC808	IC810	IC5400	IC5100	Recommended Machining Data a_p (mm)	f_z (mm/t)
T490 LNMT 0804PNR	4.24	8.59	8.00	0.40	7.43	●	●		●	●	●	●	●	1.50-8.00	0.10-0.18
T490 LNHT 080404PNR	4.24	8.59	8.00	0.40	7.51		●	●	●	●	●			1.50-8.00	0.08-0.15
T490 LNMT 080408PNR	4.24	8.59	8.00	0.80	7.43				●	●	●			1.50-8.00	0.10-0.20
T490 LNHT 080408PNR	4.24	8.59	8.00	0.80	7.16		●		●	●	●			1.50-8.00	0.08-0.15
T490 LNHT 080412PNR	4.24	8.59	8.00	1.20	7.32		●		●	●	●			1.50-8.00	0.08-0.15
T490 LNMT 080412PNR	4.24	8.59	8.00	1.20	6.87				●					1.50-8.00	0.08-0.18
T490 LNHT 080416PNR	4.24	8.59	8.00	1.60	7.24		●		●	●	●			1.50-8.00	0.08-0.15
T490 LNMT 080416PNR	4.24	8.59	8.00	1.60	7.29					●				1.50-8.00	0.10-0.18
T490 LNMT 0804PNR-CS (1)	4.24	8.59	8.00	0.40	7.43				●	●				2.50-8.00	0.10-0.15
T490 LNHT 080404PNR-RD (2)	4.24	8.59	8.00	0.40	7.51				●					1.50-8.00	0.08-0.15
T490 LNMT 080404PNR-RD (2)	4.24	8.59	8.00	0.40	7.51				●					1.50-8.00	0.08-0.15
T490 LNHT080404PNR-PLS (3)	4.24	8.59	8.00	0.40	7.51				●					1.50-8.00	0.08-0.15

- LNMT-utility inserts, LNHT-precision inserts

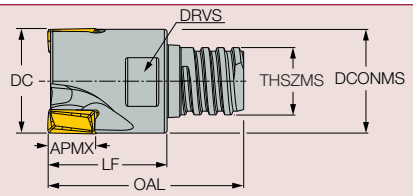
(1) Chip splitting cutting edge
(2) Used for ramping down applications
(3) Positive rake angle for soft and gummy materials
(4) Radius obtained on workpiece

HELITANG T490 LINE

T490 ELN-MM-08

90° Endmills with a MULTI-MASTER Threaded Adaptation Carrying Tangentially Clamped Inserts

MAXVALUE MINIMUM COST MAXIMUM OUTPUT



Designation	DC	CICT(1)	APMX	DCONMS	LF	OAL	THSZMS	DRVS(2)	RMPX°(3)	RMPX°_2(4)	CSP(5)	kg		
T490 ELN D16-2-MMT10	16.00	2	8.00	14.70	20.00	32.00	T10	13.0	2.0	1.1	0	0.03	SR 10502813-HGSM	IP-7/51
T490 ELN D20-3-MMT12	20.00	3	8.00	18.70	22.00	35.00	T12	16.0	1.7	0.8	0	0.05	SR 10502813-HG-M	IP-7/51

- Do not apply lubricant to the MULTI-MASTER threaded connection

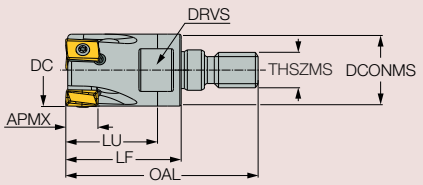
(1) Number of inserts (or edges for solid tool)
(2) Clamping wrench size
(3) Maximum ramping angle - valid only with T490 LNHT 080404PNR-RD inserts
(4) Maximum ramping angle - valid only with T490 LNMT 080404PNR-RD inserts
(5) 0 - Without coolant supply, 1 - With coolant supply

HELITANG T490 LINE

T490 ELN-M

90° Endmills with a FLEX-FIT Threaded Adaptation Carrying Tangentially Clamped Inserts

MAXVALUE MINIMUM COST MAXIMUM OUTPUT

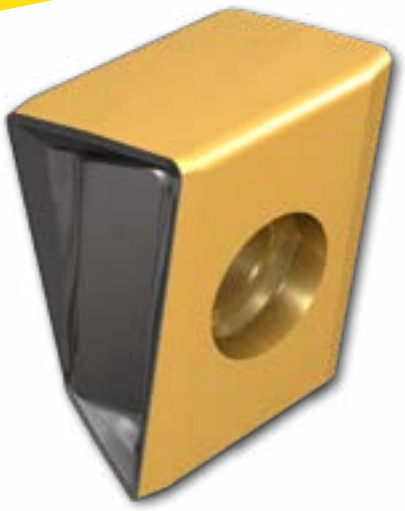


Designation	DC	CICT(1)	APMX	DCONMS	LU	LF	OAL	THSZMS	DRVS(2)	RMPX°(3)	RMPX°_2(4)	TQ_3(5)	CSP(6)	kg
T490 ELN D20-3-M10	20.00	3	8.00	18.70	-	30.00	50.00	M10	15.0	1.7	0.8	29	1	0.06
T490 ELN D25-3-M12	25.00	3	8.00	21.00	-	28.00	50.00	M12	17.0	-	-	33	1	0.08
T490 ELN D25-4-M12	25.00	4	8.00	21.00	-	28.00	50.00	M12	17.0	-	-	33	1	0.08
T490 ELN D32-5-M16	32.00	5	8.00	29.00	-	30.00	55.00	M16	25.0	-	-	40	1	0.16

- Before mounting the FLEX-FIT adaptation, clean the mating surfaces and threads. Tighten to eliminate gaps, using the torque value from TQ_3.

(1) Number of inserts (or edges for solid tool)
(2) Clamping wrench size
(3) Maximum ramping angle - valid only with T490 LNHT 080404PNR-RD inserts
(4) Maximum ramping angle - valid only with T490 LNMT 080404PNR-RD inserts
(5) Tool tightening torque Nxm
(6) 0 - Without coolant supply, 1 - With coolant supply

MAXVALUE MINIMUM COST MAXIMUM OUTPUT

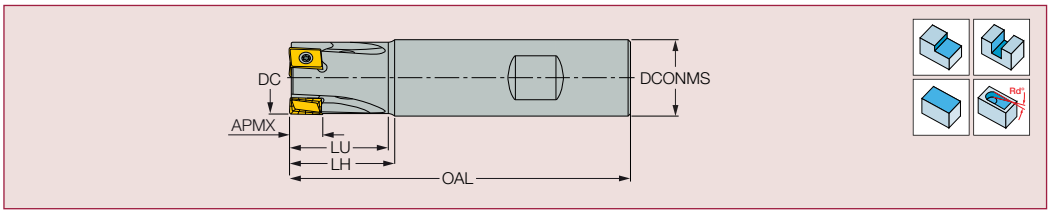


MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

HELITANG T490 LINE

T490 ELN-08

90° Endmills Carrying Tangentially Clamped Inserts with 4 Helical, 8 mm Long Cutting Edges



Designation	DC	CICT(1)	LH	LU	APMX	OAL	DCONMS	Shank(2)	CSP(3)	RMPX°(4)	RMPX°_2(5)	kg		
T490 ELN D16-2-C15-08B	16.00	2	41.0	40.0	8.00	150.00	15.00	C	1	2.0	1.1	0.18	SR 10502813-HGSM	IP-7/51
T490 ELN D16-2-C16-08	16.00	2	28.0	26.0	8.00	90.00	16.00	C	0	2.0	1.1	0.13	SR 10502813-HGSM	IP-7/51
T490 ELN D16-2-C16-08C	16.00	2	28.0	26.0	8.00	90.00	16.00	C	1	2.0	1.1	0.12	SR 10502813-HGSM	IP-7/51
T490 ELN D16-2-W16-08	16.00	2	28.0	26.0	8.00	85.00	16.00	W	0	2.0	1.1	0.12	SR 10502813-HGSM	IP-7/51
T490 ELN D16-2-W16-08C	16.00	2	28.0	26.0	8.00	85.00	16.00	W	1	2.0	1.1	0.11	SR 10502813-HGSM	IP-7/51
T490 ELN D18-2-C20-08C	18.00	2	28.0	26.0	8.00	90.00	20.00	C	1	1.8	1.0	0.18	SR 10502813-HGSM	IP-7/51
T490 ELN D20-2-C19-08B	20.00	2	41.0	40.0	8.00	160.00	19.00	C	1	1.7	0.8	0.31	SR 10502813-HG-M	IP-7/51
T490 ELN D20-2-C20-08C	20.00	2	28.0	26.0	8.00	110.00	20.00	C	1	1.7	0.8	0.23	SR 10502813-HG-M	IP-7/51
T490 ELN D20-2-W20-08C	20.00	2	28.0	26.0	8.00	90.00	20.00	W	1	1.7	0.8	0.19	SR 10502813-HG-M	IP-7/51
T490 ELN D20-3-C20-08	20.00	3	28.0	26.0	8.00	110.00	20.00	C	0	1.7	0.8	0.25	SR 10502813-HG-M	IP-7/51
T490 ELN D20-3-C20-08C	20.00	3	28.0	26.0	8.00	110.00	20.00	C	1	1.7	0.8	0.23	SR 10502813-HG-M	IP-7/51
T490 ELN D20-3-W20-08	20.00	3	28.0	26.0	8.00	90.00	20.00	W	0	1.7	0.8	0.20	SR 10502813-HG-M	IP-7/51
T490 ELN D20-3-W20-08C	20.00	3	28.0	26.0	8.00	90.00	20.00	W	1	1.7	0.8	0.18	SR 10502813-HG-M	IP-7/51
T490 ELN D22-3-C20-08C	22.00	3	28.0	30.0	8.00	110.00	20.00	C	1	-	-	0.24	SR 10502813-HG-M	IP-7/51
T490 ELN D25-3-C24-08B	25.00	3	41.0	40.0	8.00	200.00	24.00	C	1	-	-	0.61	SR 10502813-HG-M	IP-7/51
T490 ELN D25-3-C25-08C	25.00	3	28.0	26.0	8.00	120.00	25.00	C	1	-	-	0.39	SR 10502813-HG-M	IP-7/51
T490 ELN D25-3-W25-08C	25.00	3	28.0	26.0	8.00	95.00	25.00	W	1	-	-	0.30	SR 10502813-HG-M	IP-7/51
T490 ELN D25-4-C25-08	25.00	4	28.0	26.0	8.00	120.00	25.00	C	0	-	-	0.43	SR 10502813-HG-M	IP-7/51
T490 ELN D25-4-C25-08C	25.00	4	28.0	26.0	8.00	120.00	25.00	C	1	-	-	0.39	SR 10502813-HG-M	IP-7/51
T490 ELN D25-4-W25-08	25.00	4	28.0	26.0	8.00	95.00	25.00	W	0	-	-	0.33	SR 10502813-HG-M	IP-7/51
T490 ELN D25-4-W25-08C	25.00	4	28.0	26.0	8.00	95.00	25.00	W	1	-	-	0.30	SR 10502813-HG-M	IP-7/51
T490 ELN D32-3-C32-08C	32.00	3	32.0	30.0	8.00	130.00	32.00	C	1	-	-	0.72	SR 10502813-HG-M	IP-7/51
T490 ELN D32-4-C32-08B	32.00	4	32.0	30.0	8.00	200.00	32.00	C	1	-	-	1.14	SR 10502813-HG-M	IP-7/51
T490 ELN D32-5-C32-08C	32.00	5	32.0	30.0	8.00	130.00	32.00	C	1	-	-	0.73	SR 10502813-HG-M	IP-7/51
T490 ELN D32-5-W32-08C	32.00	5	32.0	30.0	8.00	110.00	32.00	W	1	-	-	0.60	SR 10502813-HG-M	IP-7/51
T490 ELN D40-4-C32-08C	40.00	4	-	30.0	8.00	130.00	32.00	C	1	-	-	0.81	SR 10502813-HG-M	IP-7/51
T490 ELN D40-6-C32-08C	40.00	6	-	30.0	8.00	130.00	32.00	C	1	-	-	0.82	SR 10502813-HG-M	IP-7/51
T490 ELN D40-6-W32-08C	40.00	6	-	30.0	8.00	110.00	32.00	W	1	-	-	0.69	SR 10502813-HG-M	IP-7/51

- "B" suffix with long cylindrical shank which may be shortened.

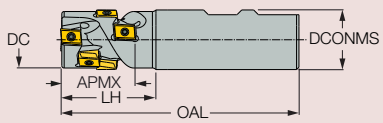
(1) Number of inserts (or edges for solid tool)
(2) C-Cylindrical, W-Weldon
(3) 0 - Without coolant supply, 1 - With coolant supply
(4) Maximum ramping angle - valid only with T490 LNHT 080404PNR-RD inserts
(5) Maximum ramping angle - valid only with T490 LNMT 080404PNR-RD inserts

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

HELITANG T490 LINE

T490 LNM-08

Extended Flute Endmills Carrying T490 LNMT/HT 08... Tangentially Clamped Inserts



Designation	DC	APMX	NOF(1)	CICT(2)	LH	OAL	DCONMS	Shank(3)	CSP(4)	kg		
T490 LNM D20-15-2-W20-08C	20.00	15.00	2	4	30.0	80.00	20.00	W	1	0.16	SR 10502813-HG-M	IP-7/51
T490 LNM D25-30-2-C25-08C	25.00	30.00	2	8	40.0	100.00	25.00	C	1	0.31	SR 10502813-HG-M	IP-7/51
T490 LNM D25-30-2-W25-08C	25.00	30.00	2	8	40.0	100.00	25.00	W	1	0.30	SR 10502813-HG-M	IP-7/51
T490 LNM D32-36-3-C32-08C	32.00	36.00	3	15	45.0	110.00	32.00	C	1	0.55	SR 10502813-HG-M	IP-7/51
T490 LNM D32-36-3-W32-08C	32.00	36.00	3	15	45.0	110.00	32.00	W	1	0.55	SR 10502813-HG-M	IP-7/51
T490 LNM D40-44-4-W32-08C	40.00	44.00	4	24	53.0	120.00	32.00	W	1	0.73	SR 10502813-HG-M	IP-7/51

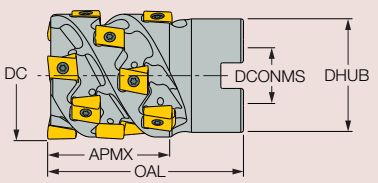
(1) Number of flutes
(2) Number of inserts (or edges for solid tool)
(3) W-Weldon, C-Cylindrical
(4) 0 - Without coolant supply, 1 - With coolant supply

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

HELITANG T490 LINE

T490 SM-08

Extended Flute Shell Mills
Carrying T490 LNMT/HT 0804...
Tangentially Clamped Inserts



Designation	DC	APMX	NOF(1)	CICT(2)	OAL	DHUB	DCONMS	Arbor(3)	CSP(4)	kg			
T490 SM D032-36-3-16-08	32.00	36.00	3	15	58.00	38.00	16.00	A	1	0.23	SR 10502813-HG-M	IP-7/51	SR M8X45DIN912
T490 SM D040-44-4-16-08	40.00	44.00	4	24	65.00	38.00	16.00	A	1	0.38	SR 10502813-HG-M	IP-7/51	SR M8X55DIN912
T490 SM D050-44-5-22-08	50.00	44.00	5	30	65.00	47.00	22.00	A	1	0.61	SR 10502813-HG-M	IP-7/51	SR M10X50 DIN 912

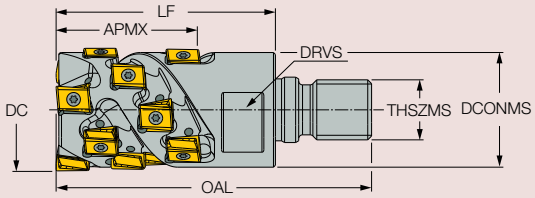
(1) Number of flutes
(2) Number of inserts (or edges for solid tool)
(3) Adaptation
(4) 0 - Without coolant supply, 1 - With coolant supply

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

HELITANG T490 LINE

T490 LNM-M-08

Extended Flute Endmills
with a FLEX-FIT Threaded
Adaptation Carrying
Tangentially Clamped Inserts



Designation	DC	APMX	NOF(1)	CICT(2)	LF	OAL	DCONMS	THSZMS	DRVS(3)	CSP(4)	kg	TQ_3(5)		
T490 LNM D25-30-2-M12-08	25.00	30.00	2	8	52.00	74.00	21.00	M12	17.0	1	0.12	33	SR 10502813-HG-M	IP-7/51
T490 LNM D32-36-3-M16-08	32.00	36.00	3	15	57.00	82.00	30.00	M16	25.0	1	0.26	40	SR 10502813-HG-M	IP-7/51

- Before mounting the FLEX-FIT adaptation, clean the mating surfaces and threads. Tighten to eliminate gaps, using the torque value from TQ_3.

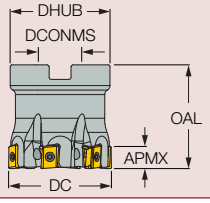
(1) Number of flutes
(2) Number of inserts (or edges for solid tool)
(3) Clamping wrench size
(4) 0 - Without coolant supply, 1 - With coolant supply
(5) Tool tightening torque Nxm

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

HELITANG T490 LINE

T490 FLN-08

90° Face Mills with Tangentially
Clamped Inserts



Designation	DC	CICT(1)	APMX	OAL	DHUB	DCONMS	Arbor(2)	CSP(3)	kg
T490 FLN D032-03-16-08	32.00	3	8.00	35.00	30.40	16.00	A	1	0.11
T490 FLN D032-05-16-08	32.00	5	8.00	35.00	30.40	16.00	A	1	0.11
T490 FLN D040-04-16-08	40.00	4	8.00	40.00	38.40	16.00	A	1	0.23
T490 FLN D040-06-16-08	40.00	6	8.00	40.00	38.40	16.00	A	1	0.32
T490 FLN D050-05-22-08	50.00	5	8.00	40.00	48.00	22.00	A	1	0.36
T490 FLN D050-07-22-08	50.00	7	8.00	40.00	48.00	22.00	A	1	0.37
T490 FLN D050-10-22-08	50.00	10	8.00	40.00	48.00	22.00	A	0	0.39
T490 FLN D063-06-27-08	63.00	6	8.00	40.00	60.00	27.00	A	1	0.60
T490 FLN D063-09-27-08	63.00	9	8.00	40.00	60.00	27.00	A	1	0.62
T490 FLN D080-10-27-08	80.00	10	8.00	50.00	60.00	27.00	B	0	0.84

- When machining slots, regular pitch cutters should be used

(1) Number of inserts (or edges for solid tool)
(2) Adaptation
(3) 0 - Without coolant supply, 1 - With coolant supply

MAXVALUE

MINIMUM COST MAXIMUM OUTPUT



With 4 indexable cutting edges, the small-sized insert enables higher tooth density in high-feed milling cutters for **increased productivity.**



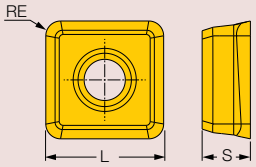
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

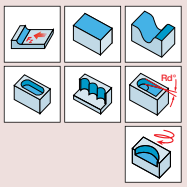
MILL4FEED

FFQ4 SOMT/W 0602

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







Designation	Dimensions L	S	RE	Tough ↔ Hard IC882	IC840	IC830	IC08	IC808	Recommended Machining Data a_p (mm)	f_z (mm/t)
FFQ4 SOMT 060210HP	5.50	2.00	1.00	●	●			●	0.20-0.70	0.20-0.90
FFQ4 SOMT 060210HP-P	5.50	2.00	1.00				●		0.20-0.70	0.20-0.90
FFQ4 SOMT 060210T	5.50	2.04	1.00			●		●	0.20-0.70	0.20-1.00
FFQ4 SOMT 0602RM-HP	5.58	2.00	1.00	●					0.20-0.70	0.20-0.90
FFQ4 SOMW 060213T	5.60	2.11	1.30					●	0.20-0.60	0.20-0.40

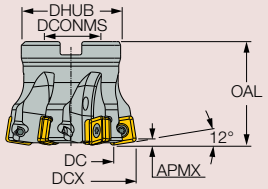
- For side plunging, the initial cutting feed is 0.1 mm/t • T type for steel, ferritic and martensitic stainless steel and cast iron
- HP type for austenitic stainless steel and high temperature alloys • SOMW- flat insert for hard material (up to 60 HRC) and uneven surface

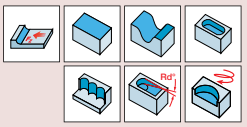
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

MILL4FEED

FFQ4 D-06

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





Designation	DC	DCX(1)	APMX	AE(2)	CICT(3)	OAL	DCONMS	DHUB	RMPX°(4)	CSP(5)	MDN	MDX	Arbor	MIID(6)	TQ (Nm)	kg
FFQ4 D40-09-16-06	31.20	40.00	0.70	4.4	9	40.00	16.00	38.00	1.0	1	71.20	79.00	A	FFQ4 SOMT 060210T	0.9	0.17
FFQ4 D50-10-22-06	41.20	50.00	0.70	4.4	10	40.00	22.00	47.00	0.7	1	91.20	99.00	A	FFQ4 SOMT 060210T	0.9	0.3

- To generate a straight surface without cusps, the width of cut must not exceed DC • Programming radius for insert SOMT 1.7mm, for insert SOMW 1.9mm
- When mounting insert SOMW, APMX=0.6mm • For slot milling or machining with high tool overhang, the maximum depth of cut should be reduced by 50%

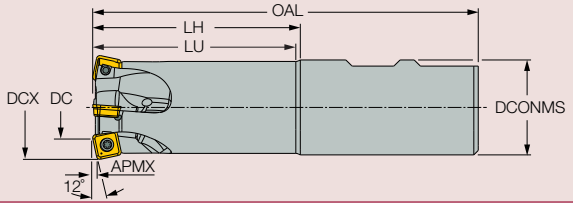
(1) Cutting diameter maximum
(2) Maximum plunging width
(3) Number of inserts (or edges for solid tool)
(4) Maximum ramping angle
(5) 0 - Without coolant supply, 1 - With coolant supply
(6) Master insert identification

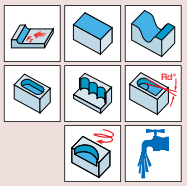
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

MILL4FEED

FFQ4 D-C/W-06

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





Designation	DCX(1)	DC	APMX	AE(2)	CICT(3)	LU	LH	DCONMS	OAL	Shank	RMPX°(4)	MDN	MDX	MIID(5)	CSP(6)	TQ (Nm)	kg
FFQ4 D16-03-C16-06	16.00	7.20	0.70	4.4	3	24.50	26.0	16.00	90.00	C	6.0	23.20	31.00	FFQ4 SOMT 060210T	1	0.9	0.11
FFQ4 D20-04-C20-06	20.00	11.20	0.70	4.4	4	40.00	42.0	20.00	130.00	C	3.5	31.20	39.00	FFQ4 SOMT 060210T	1	0.9	0.27
FFQ4 D25-05-W25-06	25.00	16.20	0.70	4.4	5	50.00	52.0	25.00	110.00	W	2.2	41.20	49.00	FFQ4 SOMT 060210T	1	0.9	0.33
FFQ4 D32-07-W32-06	32.00	23.20	0.70	4.4	7	64.00	66.0	32.00	130.00	W	1.4	55.20	63.00	FFQ4 SOMT 060210T	1	0.9	0.68

- To generate a straight surface without cusps, the width of cut must not exceed DC • Radius for programming: for insert SOMT 1.7 mm, for insert SOMW 1.9 mm
- When mounting insert SOMW, APMX=0.6 mm • For slot milling or machining with high tool overhang, the maximum depth of cut should be reduced by 50%

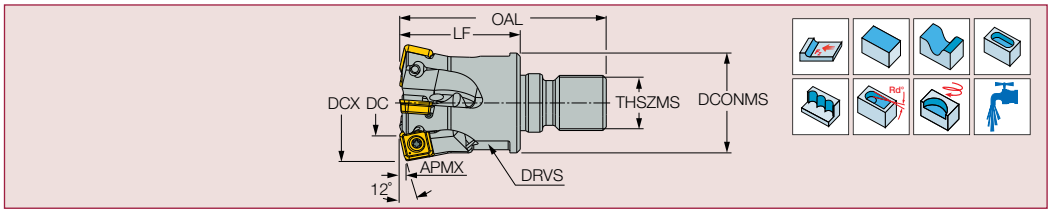
(1) Cutting diameter maximum
(2) Maximum plunging width
(3) Number of inserts (or edges for solid tool)
(4) Maximum ramping angle
(5) Master insert identification
(6) 0 - Without coolant supply, 1 - With coolant supply

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

MILL4FEED

FFQ4 D-M-06

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



Designation	DCX[1]	DC	APMX	AE[2]	CICT[3]	LF	OAL	DCONMS	THSZMS	RMPX°[4]	MDN	MDX	DRVS[5]	MIID[6]	CSP[7]	TQ (Nm)	TQ_3[8]	kg
FFQ4 D20-04-M10-06	20.00	11.20	0.70	4.4	4	25.00	45.00	18.00	M10	3.5	31.20	39.00	15.1	FFQ4 SOMT 060210T	1	0.9	29	0.04
FFQ4 D25-05-M12-06	25.00	16.20	0.70	4.4	5	30.00	52.00	21.00	M12	2.2	41.20	49.00	17.1	FFQ4 SOMT 060210T	1	0.9	33	0.18
FFQ4 D32-07-M16-06	32.00	23.20	0.70	4.4	7	30.00	55.00	29.40	M16	1.4	55.20	63.00	25.1	FFQ4 SOMT 060210T	1	0.9	40	0.16
FFQ4 D35-08-M16-06	35.00	26.20	0.70	4.4	8	35.00	60.00	29.00	M16	1.4	61.20	69.00	25.1	FFQ4 SOMT 060210T	1	0.9	40	0.20
FFQ4 D40-09-M16-06	40.00	31.20	0.70	4.4	9	35.00	60.00	29.00	M16	1.0	71.20	79.00	25.1	FFQ4 SOMT 060210T	1	0.9	40	0.20

- To generate a straight surface without cusps, the width of cut must not exceed DC • Radius for programming: for insert SOMT 1.7 mm, for insert SOMW 1.9 mm
- When mounting insert SOMW, APMX=0.6 mm • For slot milling or machining with high tool overhang, the maximum depth of cut should be reduced by 50%

(1) Cutting diameter maximum
(2) Maximum plunging width
(3) Number of inserts (or edges for solid tool)
(4) Maximum ramping angle
(5) Torque key size
(6) Master insert identification
(7) 0 - Without coolant supply, 1 - With coolant supply
(8) Tool tightening torque Nxm

Spare Parts

Designation			
FFQ4 D-M-06	SR 10516050-L4.6	IP-7/51	IP-7/51[a]

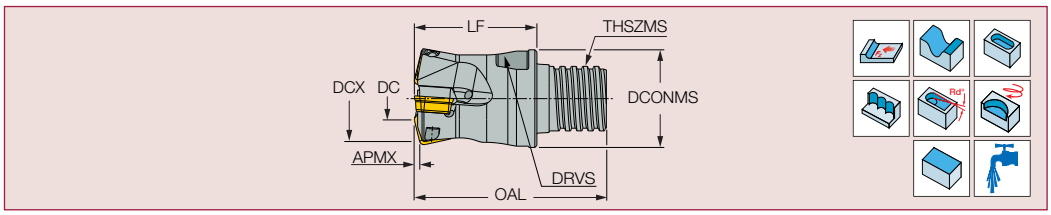
(a) For limiting torque, use optional 7007378 BLD 4 IP07-0.9NM blade & 7007318 HSD 4-0.9NM handle.

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

MILL4FEED

FFQ4 D-MM-06

Fast Feed Endmills with MULTI-MASTER Threaded Adaptation Carrying Single-Sided Square Inserts with 4 Cutting Edges



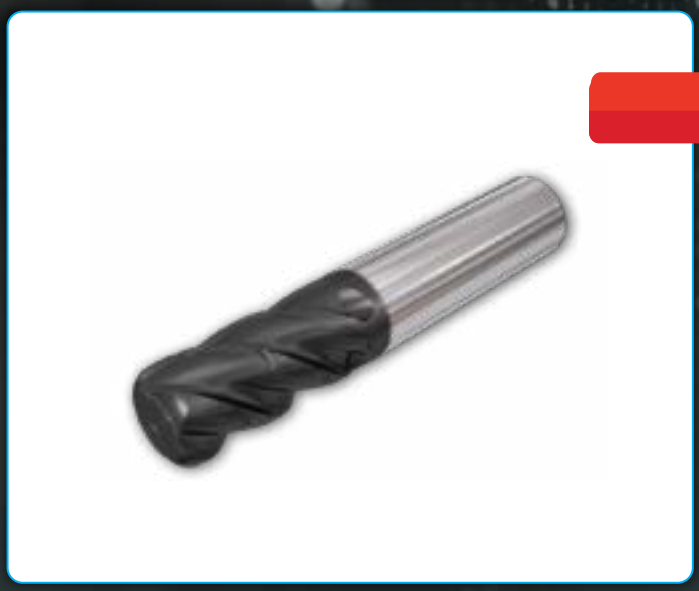
Designation	DCX[1]	DC	APMX	AE[2]	CICT[3]	THSZMS	LF	OAL	DCONMS	DRVS[4]	RMPX°[5]	CSP[6]	MDN	MDX	TQ_3[7]	MIID[8]	TQ (Nm)	kg
FFQ4 D16/.63-03-MMT10-06	16.00	7.20	0.70	4.4	3	T10	16.00	27.30	15.20	13.0	6.0	1	23.20	31.00	28	FFQ4 SOMT 060210T	0.9	0.02
FFQ4 D20-04-MMT12-06	20.00	11.20	0.70	4.4	4	T12	25.00	38.30	18.80	16.0	3.5	1	31.20	39.00	28	FFQ4 SOMT 060210T	0.9	0.05
FFQ4 D25/.98-05-MMT15-06	25.00	16.20	0.70	4.4	5	T15	30.00	47.00	24.00	20.0	2.2	1	41.20	49.00	40	FFQ4 SOMT 060210T	0.9	0.09
FFQ4 D32/1.26-07-MMT21-06	32.00	23.20	0.70	4.4	7	T21	30.00	53.10	29.40	24.0	1.4	1	55.20	63.00	110	FFQ4 SOMT 060210T	0.9	0.17

- Do not apply lubricant to the MULTI-MASTER threaded connection • To generate a straight surface without cusps, the width of cut must not exceed DC.
- Radius for programing: for insert SOMT 1.7 mm, for insert SOMW 1.9 mm. • When mounting insert SOMW, APMX=0.6 mm
- For slot milling or machining with high tool overhang, the maximum depth of cut should be reduced by 50%.

(1) Cutting diameter maximum
(2) Maximum plunging width
(3) Number of inserts (or edges for solid tool)
(4) Torque key size
(5) Maximum ramping angle
(6) 0 - Without coolant supply, 1 - With coolant supply
(7) Tool tightening torque Nxm
(8) Master insert identification

MAXVALUE

MINIMUM COST MAXIMUM OUTPUT





MICRO-3-FEED

With 3 indexable cutting edges, the small high-feed trigon insert delivers **efficient, productive roughing and proves that compact inserts can make a big performance impact.**



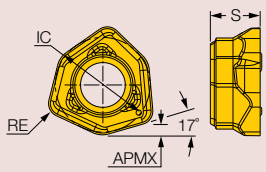
MICRO 3 FEED MF 300 ENDMILL

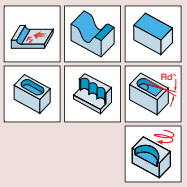
FFT3 WXMT 03

Single-Sided Small Trigon
Inserts for Fast Feed Milling

MAXVALUE MINIMUM COST MAXIMUM OUTPUT







Designation	Dimensions IC	S	RE	APMX	Tough ↔ Hard IC882	IC830	IC5820	IC808	Recommended Machining Data 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

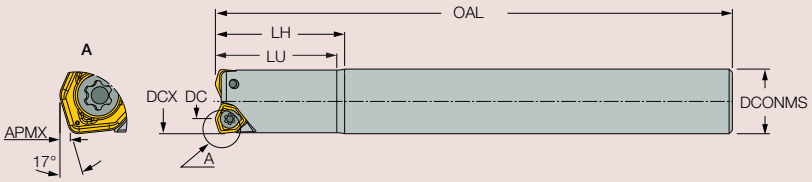
• For side plunging, the initial cutting feed is 0.08 mm/t

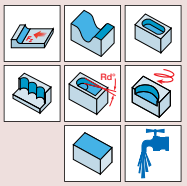
MICRO 3 FEED MF 300 ENDMILL

FFT3 EFM-03

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

MAXVALUE MINIMUM COST MAXIMUM OUTPUT





Designation	DCX(1)	DC	APMX	AE(2)	CICT(3)	LU	LH	DCONMS	OAL	Shank(4)	RMPX°(5)	MDN(6)	MDX(7)	MIID(8)	CSP(9)	kg
FFT3 EFM D08-1-080-C12-03	8.00	3.60	0.60	2.2	1	15.70	20.0	12.00	80.00	C	1.1	11.60	15.00	FFT3 WXMT 030206T	1	0.09
FFT3 EFM D10-2-080-C10-03	10.00	5.60	0.60	2.2	2	18.00	20.0	10.00	80.00	C	6.9	15.60	19.00	FFT3 WXMT 030206T	1	0.11
FFT3 EFM D12-3-120-C12-03	12.00	7.60	0.60	2.2	3	23.00	25.0	12.00	120.00	C	4.7	19.60	23.00	FFT3 WXMT 030206T	1	0.10
FFT3 EFM D16-4-140-C16-03	16.00	11.60	0.60	2.2	4	32.80	35.0	16.00	140.00	C	2.9	27.60	31.00	FFT3 WXMT 030206T	1	0.18
FFT3 EFM D20-5-160-C20-03	20.00	15.60	0.60	2.2	5	40.80	43.0	20.00	160.00	C	2.0	35.60	39.00	FFT3 WXMT 030206T	1	0.37
FFT3 EFM D25-6-180-C25-03	25.00	20.60	0.60	2.2	6	50.80	53.0	25.00	180.00	C	1.5	45.60	49.00	FFT3 WXMT 030206T	1	0.62

• Radius for programming 1.0 mm • To generate a straight surface without cusps, the width of cut must not exceed DC

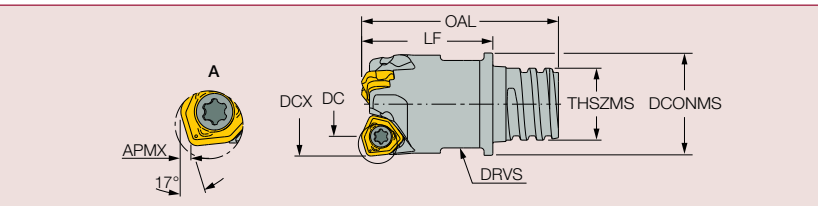
(1) Cutting diameter maximum
(2) Maximum plunging width
(3) Number of inserts (or edges for solid tool)
(4) C-Cylindrical
(5) Maximum ramping angle
(6) Machinable diameter minimum for interpolation
(7) Machinable diameter maximum for interpolation
(8) Master insert identification
(9) 0 - Without coolant supply, 1 - With coolant supply

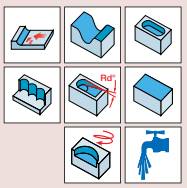
MICRO 3 FEED MF 300 ENDMILL

FFT3 EFM-MM 03

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

MAXVALUE MINIMUM COST MAXIMUM OUTPUT





Designation	DCX(1)	DC	APMX	AE(2)	CICT(3)	LF	DCONMS	THSZMS	OAL	DRVS(4)	RMPX°(5)	MDN(6)	MDX(7)	MIID(8)	CSP(9)	kg
FFT3 EFMD10/.39-2MMT06-03	10.00	5.60	0.60	2.2	2	10.00	9.70	T06	16.30	8.0	6.9	15.60	19.00	FFT3 WXMT 030206T	1	0.02
FFT3 EFMD12/.47-3MMT08-03	12.00	7.60	0.60	2.2	3	15.00	11.70	T08	22.50	10.0	4.7	19.60	23.00	FFT3 WXMT 030206T	1	0.03
FFT3 EFMD16/.63-4MMT10-03	16.00	11.60	0.60	2.2	4	20.00	15.30	T10	31.30	13.0	2.9	27.60	31.00	FFT3 WXMT 030206T	1	0.05
FFT3 EFMD20/.78-5MMT12-03	20.00	15.60	0.60	2.2	5	25.00	19.00	T12	38.30	16.0	2.0	35.60	39.00	FFT3 WXMT 030206T	1	0.07
FFT3 EFMD25/.98-6MMT15-03	25.00	20.60	0.60	2.2	6	30.00	24.00	T15	47.00	20.0	1.5	45.60	49.00	FFT3 WXMT 030206T	1	0.16

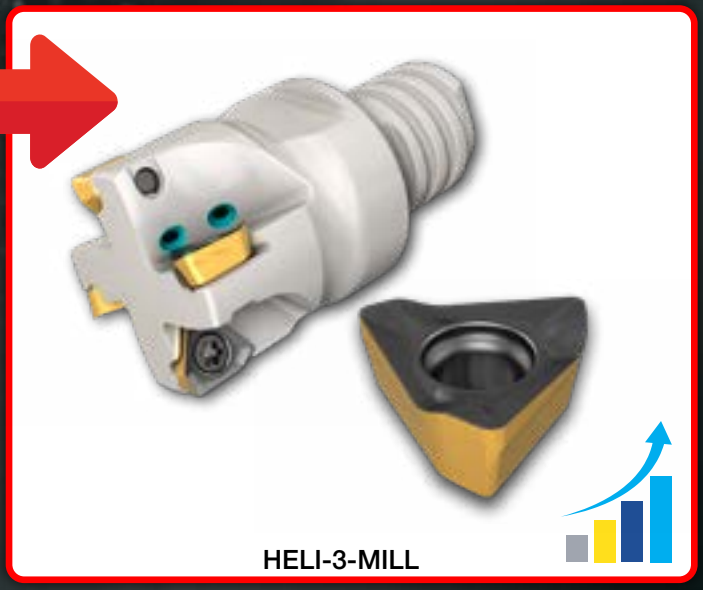
• Radius for programming 1.0 mm • To generate a straight surface without cusps, the width of cut must not exceed DC

(1) Cutting diameter maximum
(2) Maximum plunging width
(3) Number of inserts (or edges for solid tool)
(4) Torque key size
(5) Maximum ramping angle
(6) Machinable diameter minimum for interpolation
(7) Machinable diameter maximum for interpolation
(8) Master insert identification
(9) 0 - Without coolant supply, 1 - With coolant supply

MAXVALUE

MINIMUM COST MAXIMUM OUTPUT





HELI-3-MILL

A material-efficient triangular insert with 3 cutting edges **boosts productivity through longer tool life and delivers accurate 90° square-shoulder milling while reducing carbide scrap through full-edge utilization.**



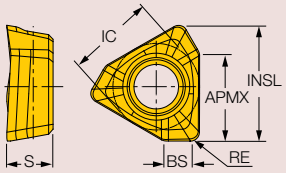
HELI3MILL HM390 LINE

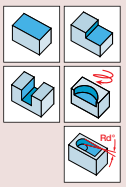
HM390 TPKT/CT 0502

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

MAXVALUE MINIMUM COST MAXIMUM OUTPUT







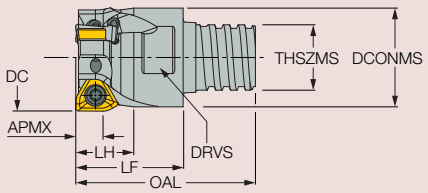
Designation	Dimensions INSL	IC	S	APMX	RE	BS	Tough ↔ Hard IC830	IC808	IC810	Recommended Machining Data a_p (mm)	f_z (mm/t)
HM390 TPCT 0502PDR	5.26	3.94	2.10	3.50	0.40	1.00	●			0.80-3.50	0.05-0.10
HM390 TPKT 0502PDR	5.26	3.94	2.10	3.50	0.40	1.00	●	●	●	0.80-3.50	0.05-0.15
HM390 TPKT 050202PDR	5.26	3.94	2.10	3.50	0.20	1.20		●		0.60-3.50	0.05-0.15
HM390 TPKT 050208PDR	5.26	3.94	2.10	3.50	0.80	0.60		●		1.20-3.50	0.05-0.15

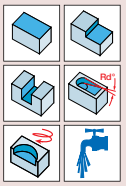
HELI3MILL HM390 LINE

HM390 ETP/C/D-MM-JHP

90° JHP endmill with a MULTI-MASTER threaded adaptation

MAXVALUE MINIMUM COST MAXIMUM OUTPUT





Designation	DC	APMX	CICT(3)	LF	LH	DCONMS	THSZMS	OAL	DRVS(4)	RMPX°(5)	CSP(6)	MIID(7)
HM390 ETPD16-4MMT10-05JHP	16.00	3.50	4	18.00	-	15.50	T10	29.30	13.0	1.5	1	HM390 TPKT 0502 PDR
HM390 ETPD20-5MMT12-05JHP	20.00	3.50	5	20.00	-	19.40	T12	33.27	16.0	1.3	1	HM390 TPKT 0502 PDR
HM390 ETCD16-2MMT10-07JHP	16.00	5.00	2	16.00	9.7	15.30	T10	27.30	13.0	1.9	1	HM390 TCKT 0703 PCTR
HM390 ETCD20-3MMT12-07JHP	20.00	5.00	3	20.00	10.8	18.30	T12	33.30	16.0	1.4	1	HM390 TCKT 0703 PCTR
HM390 ETCD25-4MMT15-07JHP	25.00	5.00	4	25.00	11.5	23.90	T15	42.00	20.0	1.0	1	HM390 TCKT 0703 PCTR
HM390 ETPD25-3MMT15-10JHP (1)	25.00	8.00	3	30.00	-	24.00	T15	47.00	20.0	2.9	1	HM390 TPKT 1003 PDR
HM390 ETPD32-4MMT21-10JHP (1)	32.00	8.00	4	30.00	-	29.00	T21	53.10	24.0	2.1	1	HM390 TPKT 1003 PDR
HM390 ETDD40-4MMT21-15JHP (2)	40.00	13.00	4	35.00	24.0	29.00	T21	58.10	24.0	2.1	1	HM390 TDKT 1505 PDR

- Do not apply lubricant to the threaded connection

(1) When assembled the HM390 TPKT 1003PDR-FW insert, tool diameter enlarges by 0.5mm

(2) When assembled the HM390 TDKT 1505PDR-FW insert, tool diameter enlarges by 1.0mm

(3) Number of inserts (or edges for solid tool)

(4) Torque key size

(5) Maximum ramping angle

(6) 0 - Without coolant supply, 1 - With coolant supply

(7) Master insert identification

MAXVALUE MINIMUM COST MAXIMUM OUTPUT

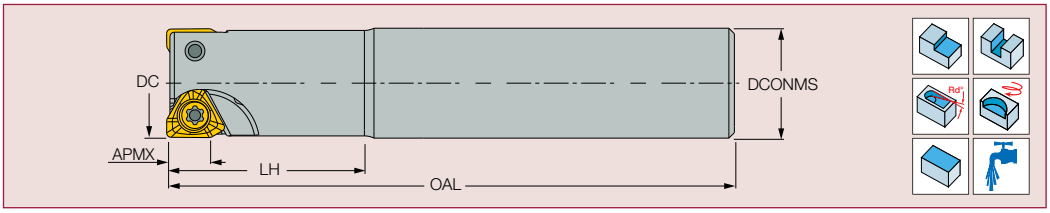


HELI3MILL HM390 LINE

HM390 ETP-05

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

MAXVALUE MINIMUM COST MAXIMUM OUTPUT



Designation	DC	APMX	CICT(1)	OAL	LH	DCONMS	Shank(2)	RMPX°(3)	CSP(4)	MIID(5)	kg
HM390 ETP D06-1-C06-05-C	6.00	3.50	1	57.00	15.0	6.00	C	1.0	1	HM390 TPKT 0502PDR	0.026
HM390 ETP D08-1-C08-05-C	8.00	3.50	1	60.00	14.9	8.00	C	1.0	1	HM390 TPKT 0502PDR	0.028
HM390 ETP D10-2-C10-05-C	10.00	3.50	2	70.00	18.0	10.00	C	2.0	1	HM390 TPKT 0502PDR	0.034
HM390 ETP D12-3-C12-05-C	12.00	3.50	3	70.00	18.0	12.00	C	1.5	1	HM390 TPKT 0502PDR	0.055
HM390 ETP D14-3-C14-05-C	14.00	3.50	3	80.00	20.0	14.00	C	1.5	1	HM390 TPKT 0502PDR	0.080
HM390 ETP D16-4-C16-05-C	16.00	3.50	4	90.00	20.0	16.00	C	1.5	1	HM390 TPKT 0502PDR	0.120

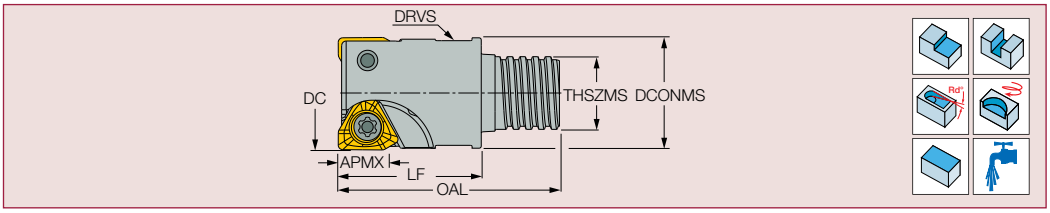
(1) Number of inserts (or edges for solid tool)
(2) C-Cylindrical
(3) Maximum ramping angle
(4) 0 - Without coolant supply, 1 - With coolant supply
(5) Master insert identification

HELI3MILL HM390 LINE

HM390 ETP-MM-05

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

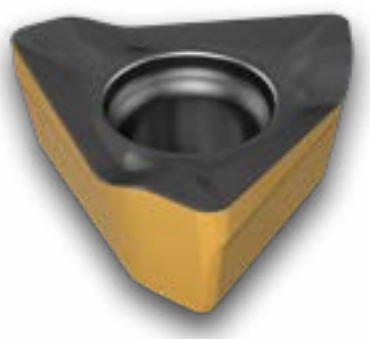
MAXVALUE MINIMUM COST MAXIMUM OUTPUT



Designation	DC	APMX	CICT(1)	LF	DCONMS	THSZMS	OAL	DRVS(2)	RMPX°(3)	CSP(4)	MIID(5)	kg
HM390 ETP D10-2-MMT06-05	10.00	3.50	2	15.00	9.60	T06	21.60	8.0	2.0	1	HM390 TPKT 0502PDR	0.007
HM390 ETP D12-3-MMT08-05	12.00	3.50	3	16.00	11.60	T08	24.20	10.0	1.5	1	HM390 TPKT 0502PDR	0.010
HM390 ETP D14-3-MMT08-05	14.00	3.50	3	16.00	13.60	T08	22.90	10.0	1.5	1	HM390 TPKT 0502PDR	0.015
HM390 ETP D16-4-MMT10-05	16.00	3.50	4	18.00	15.60	T10	29.80	13.0	1.5	1	HM390 TPKT 0502PDR	0.025

(1) Number of inserts (or edges for solid tool)
(2) Torque key size
(3) Maximum ramping angle
(4) 0 - Without coolant supply, 1 - With coolant supply
(5) Master insert identification

MAXVALUE MINIMUM COST MAXIMUM OUTPUT



MAXVALUE

MINIMUM COST MAXIMUM OUTPUT





With 4 cutting edges and a depth of cut of up to 8mm, this robust double-sided insert delivers **a high-productivity milling solution with excellent cost per edge.**

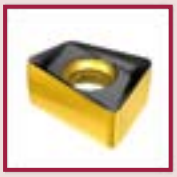


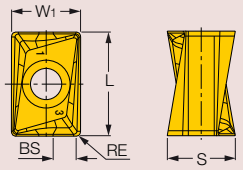
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

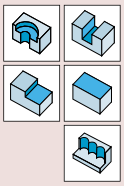
HELIDO 490 LINE

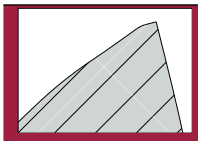
H490 ANKX/ANCX-09

Double-Sided Rectangular Inserts with 4 Helical Cutting Edges









Designation	Dimensions W1	APMX	L	S	RE	BS	Tough ↔ Hard IC330	IC830	IC380	IC808	IC810	IC5400	IC5100	Recommended Machining Data a_p (mm)	f_z (mm/t)
H490 ANCX 090404PDR	6.50	8.00	8.52	5.20	0.40	4.80		●		●				0.80-8.00	0.08-0.15
H490 ANCX 090408PDR	6.50	8.00	8.52	5.20	0.80	4.40	●	●	●	●	●			1.20-8.00	0.08-0.15
H490 ANCX 090412PDR	6.50	8.00	8.52	4.80	1.20	4.20		●		●	●			1.60-8.00	0.08-0.15
H490 ANCX 090416PDR	6.50	8.00	8.52	4.70	1.60	3.60		●		●	●			2.00-8.00	0.08-0.15
H490 ANKX 090408PNTR	6.50	8.00	8.52	5.20	0.80	5.00	●	●		●	●	●	●	1.20-8.00	0.10-0.18

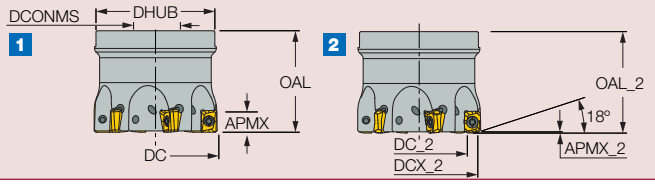
- ANKX-Utility inserts, ANCX-Precision inserts

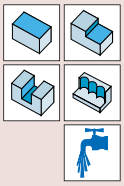
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

HELIDO 490 LINE

H490 F90AX-09

90° Face Mills Carrying H490 ANKX 09.. Double-Sided Rectangular Inserts with 4 Helical Cutting Edges





Designation	DC	DCX_2	DC_2	CICT(1)	APMX	APMX_2	AE(2)	DHUB	DCONMS	OAL	OAL_2
H490 F90AX D032-4-16-09	32.00	32.10	26.60	4	8.00	0.70	5.5	30.40	16.00	35.00	35.00
H490 F90AX D032-5-16-09	32.00	32.10	26.60	5	8.00	0.70	5.5	30.40	16.00	35.00	35.00
H490 F90AX D040-5-16-09	40.00	40.10	34.60	5	8.00	0.70	5.5	38.40	16.00	40.00	40.00
H490 F90AX D040-6-16-09	40.00	40.10	34.60	6	8.00	0.70	5.5	38.40	16.00	40.00	40.00
H490 F90AX D050-6-22-09	50.00	50.10	44.60	6	8.00	0.70	5.5	48.00	22.00	40.00	40.00
H490 F90AX D050-7-22-09	50.00	50.10	44.60	7	8.00	0.70	5.5	48.00	22.00	40.00	40.00
H490 F90AX D063-8-22-09	63.00	63.10	57.60	8	8.00	0.70	5.5	60.00	22.00	40.00	40.00
H490 F90AX D063-9-22-09	63.00	63.10	57.60	9	8.00	0.70	5.5	60.00	22.00	40.00	40.00

Designation	RMPX°_2(3)	MDN	MDX	Arbor(4)	CSP(5)	MIID(6)	MIID_2(7)	kg
H490 F90AX D032-4-16-09	1.4	58.70	63.20	A	1	H490 ANCX 090404PDR	H490 ANKX 0904..-FF	0.10
H490 F90AX D032-5-16-09	1.4	58.70	63.20	A	1	H490 ANCX 090404PDR	H490 ANKX 0904..-FF	0.10
H490 F90AX D040-5-16-09	1.0	74.70	79.20	A	1	H490 ANCX 090404PDR	H490 ANKX 0904..-FF	0.22
H490 F90AX D040-6-16-09	1.0	74.70	79.20	A	1	H490 ANCX 090404PDR	H490 ANKX 0904..-FF	0.22
H490 F90AX D050-6-22-09	0.6	94.70	99.20	A	1	H490 ANCX 090404PDR	H490 ANKX 0904..-FF	0.36
H490 F90AX D050-7-22-09	0.6	94.70	99.20	A	1	H490 ANCX 090404PDR	H490 ANKX 0904..-FF	0.37
H490 F90AX D063-8-22-09	0.5	120.70	125.20	A	1	H490 ANCX 090404PDR	H490 ANKX 0904..-FF	0.62
H490 F90AX D063-9-22-09	0.5	120.70	125.20	A	1	H490 ANCX 090404PDR	H490 ANKX 0904..-FF	0.64

- 1- with standard square insert, 2- with FF (fast feed) insert • Ramping angle is valid only when H490 ANKX 0904R12T-FF insert is used
- When assembled the H490 ANKX 0904R12T-FF insert, tool diameter enlarges by 0.1 mm

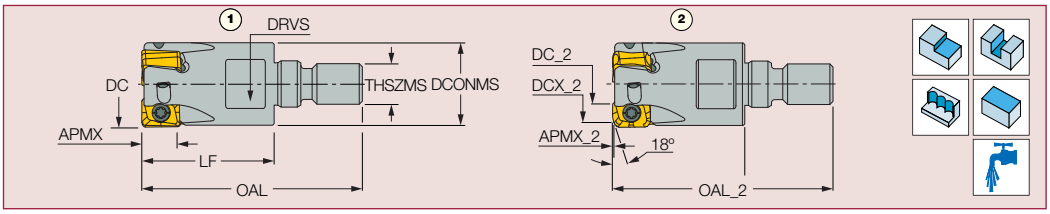
(1) Number of inserts (or edges for solid tool)
(2) Maximum side plunge
(3) Maximum ramping angle when using FF inserts
(4) Adaptation
(5) 0 - Without coolant supply, 1 - With coolant supply
(6) Master insert identification
(7) Master insert identification 2

HELIDO 490 LINE

H490 E90AX-M

90° Endmills with a FLEX-FIT Threaded Connection Carrying H490 ANKX/ANCX 09... Double-Sided Rectangular Inserts

MAXVALUE MINIMUM COST MAXIMUM OUTPUT



Designation	DC	DCX_2	DC_2	CICT(1)	APMX	APMX_2	MDN	MDX	RMPX°_2	AE	LF	LF_2
H490 E90AX D20-3-M10-09	20.00	20.10	14.60	3	8.00	0.70	34.70	39.20	2.5	5.5	30.00	30.00
H490 E90AX D25-4-M12-09	25.00	25.10	19.60	4	8.00	0.70	44.70	49.20	1.6	5.5	28.00	28.00
H490 E90AX D32-5-M16-09	32.00	32.10	26.60	5	8.00	0.70	58.70	63.20	1.4	5.5	30.00	30.00

Designation	DCONMS	THSZMS	DRVS(2)	MIID(3)	MIID_2(4)	CSP(5)	TQ_3(6)	kg
H490 E90AX D20-3-M10-09	18.70	M10	16.0	H490 ANCX 090404PDR	H490 ANKX 0904..-FF	1	29	0.06
H490 E90AX D25-4-M12-09	21.00	M12	17.0	H490 ANCX 090404PDR	H490 ANKX 0904..-FF	1	33	0.07
H490 E90AX D32-5-M16-09	29.00	M16	25.0	H490 ANCX 090404PDR	H490 ANKX 0904..-FF	1	40	0.16

- Before mounting the FLEX-FIT adaptation, clean the mating surfaces and threads. Tighten to eliminate gaps, using the torque value from TQ_3
- 1- with standard square insert • 2- with FF (fast feed) insert • When assembled the H490 ANKX 0904R12T-FF insert, tool diameter enlarges by 0.1mm

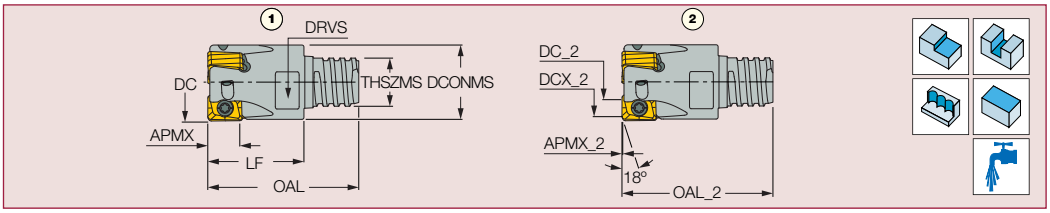
(1) Number of inserts (or edges for solid tool)
(2) Clamping wrench size
(3) Master insert identification
(4) Master insert identification 2
(5) 0 - Without coolant supply, 1 - With coolant supply
(6) Tool tightening torque Nxm

HELIDO 490 LINE

H490 E90AX-MM

90° Endmills with a MULTI-MASTER Threaded Connection Carrying H490 ANKX/ANCX 090... Double-Sided Rectangular Inserts

MAXVALUE MINIMUM COST MAXIMUM OUTPUT



Designation	DC	DCX_2	DC_2	CICT(1)	APMX	APMX_2	AE	LF	RMPX°_2	OAL	OAL_2
H490 E90AX D20-3-MMT12-09	20.00	20.10	20.00	3	8.00	0.70	5.5	24.70	2.5	37.30	37.30

Designation	DCONMS	THSZMS	MDN	MDX	MIID(2)	MIID_2(3)	DRVS(4)	CSP(5)	kg
H490 E90AX D20-3-MMT12-09	18.70	T12	34.70	39.20	H490 ANCX 090404PDR	H490 ANKX 0904..-FF	16.0	1	0.05

- Do not apply lubricant to the MULTI-MASTER threaded connection • 1- with standard square insert • 2- with FF (fast feed) insert
- When assembled the H490 ANKX 0904R12T-FF insert, tool diameter enlarges by 0.1mm

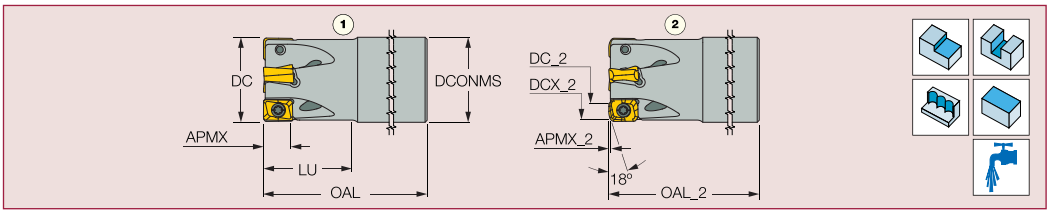
(1) Number of inserts (or edges for solid tool)
(2) Master insert identification
(3) Master insert identification 2
(4) Clamping wrench size
(5) 0 - Without coolant supply, 1 - With coolant supply

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

HELIDO 490 LINE

H490 E90AX-09

90° Endmills Carrying H490 ANKX 09... Double-Sided Rectangular Inserts with 4 Helical Cutting Edges



Designation	DC	DCX_2	DC_2	CICT(1)	APMX	APMX_2	AE(2)	OAL	OAL_2
H490 E90AX D16-2-C15-09-B	16.00	16.10	10.60	2	8.00	0.70	5.5	150.00	150.00
H490 E90AX D16-2-C16-09	16.00	16.10	10.60	2	8.00	0.70	5.5	90.00	90.00
H490 E90AX D16-2-W16-09	16.00	16.10	10.60	2	8.00	0.70	5.5	85.00	85.00
H490 E90AX D18-2-C16-09	18.00	18.10	12.60	2	8.00	0.70	5.5	90.00	90.00
H490 E90AX D20-2-C19-09-B	20.00	20.10	14.60	2	8.00	0.70	5.5	160.00	160.00
H490 E90AX D20-2-C20-09	20.00	20.10	14.60	2	8.00	0.70	5.5	110.00	110.00
H490 E90AX D20-2-W20-09	20.00	20.10	14.60	2	8.00	0.70	5.5	90.00	90.00
H490 E90AX D20-3-C20-09	20.00	20.10	14.60	3	8.00	0.70	5.5	110.00	110.00
H490 E90AX D20-3-W20-09	20.00	20.10	14.60	3	8.00	0.70	5.5	90.00	90.00
H490 E90AX D22-3-C20-09	22.00	22.10	16.60	3	8.00	0.70	5.5	115.00	115.00
H490 E90AX D25-3-C24-09-B	25.00	25.10	19.60	3	8.00	0.70	5.5	200.00	200.00
H490 E90AX D25-3-C25-09	25.00	25.10	19.60	3	8.00	0.70	5.5	120.00	120.00
H490 E90AX D25-3-W25-09	25.00	25.10	19.60	3	8.00	0.70	5.5	95.00	95.00
H490 E90AX D25-4-C25-09	25.00	25.10	19.60	4	8.00	0.70	5.5	120.00	120.00
H490 E90AX D25-4-W25-09	25.00	25.10	19.60	4	8.00	0.70	5.5	95.00	95.00
H490 E90AX D32-4-W32-09	32.00	32.10	26.60	4	8.00	0.70	5.5	110.00	110.00
H490 E90AX D32-5-C32-09	32.00	32.10	26.60	5	8.00	0.70	5.5	130.00	130.00
H490 E90AX D32-5-W32-09	32.00	32.10	26.60	5	8.00	0.70	5.5	110.00	110.00

Designation	LU	DCONMS	RMPX°_2(3)	MDN	MDX	Shank(4)	CSP(5)	MIID(6)	MIID_2(7)	kg
H490 E90AX D16-2-C15-09-B	40.0	15.00	4.0	26.70	31.20	C	1	H490 ANKX 0904	H490 ANKX 0904..-FF	0.18
H490 E90AX D16-2-C16-09	26.0	16.00	4.0	26.70	31.20	C	1	H490 ANKX 0904	H490 ANKX 0904..-FF	0.12
H490 E90AX D16-2-W16-09	26.0	16.00	4.0	26.70	31.20	W	1	H490 ANKX 0904	H490 ANKX 0904..-FF	0.11
H490 E90AX D18-2-C16-09	25.0	16.00	3.0	30.70	35.20	C	1	H490 ANKX 0904	H490 ANKX 0904..-FF	0.12
H490 E90AX D20-2-C19-09-B	40.0	19.00	2.5	34.70	39.20	C	1	H490 ANKX 0904	H490 ANKX 0904..-FF	0.31
H490 E90AX D20-2-C20-09	26.0	20.00	2.5	34.70	39.20	C	1	H490 ANKX 0904	H490 ANKX 0904..-FF	0.23
H490 E90AX D20-2-W20-09	26.0	20.00	2.5	34.70	39.20	W	1	H490 ANKX 0904	H490 ANKX 0904..-FF	0.18
H490 E90AX D20-3-C20-09	26.0	20.00	2.5	34.70	39.20	C	1	H490 ANKX 0904	H490 ANKX 0904..-FF	0.23
H490 E90AX D20-3-W20-09	26.0	20.00	2.5	34.70	39.20	W	1	H490 ANKX 0904	H490 ANKX 0904..-FF	0.18
H490 E90AX D22-3-C20-09	25.0	20.00	1.6	38.70	43.20	C	1	H490 ANKX 0904	H490 ANKX 0904..-FF	0.25
H490 E90AX D25-3-C24-09-B	40.0	24.00	1.6	44.70	49.20	C	1	H490 ANKX 0904	H490 ANKX 0904..-FF	0.61
H490 E90AX D25-3-C25-09	26.0	25.00	1.6	44.70	49.20	C	1	H490 ANKX 0904	H490 ANKX 0904..-FF	0.39
H490 E90AX D25-3-W25-09	26.0	25.00	1.6	44.70	49.20	W	1	H490 ANKX 0904	H490 ANKX 0904..-FF	0.30
H490 E90AX D25-4-C25-09	26.0	25.00	1.6	44.70	49.20	C	1	H490 ANKX 0904	H490 ANKX 0904..-FF	0.39
H490 E90AX D25-4-W25-09	26.0	25.00	1.6	44.70	49.20	W	1	H490 ANKX 0904	H490 ANKX 0904..-FF	0.30
H490 E90AX D32-4-W32-09	30.0	32.00	1.4	58.70	63.20	W	1	H490 ANKX 0904	H490 ANKX 0904..-FF	0.60
H490 E90AX D32-5-C32-09	30.0	32.00	1.4	58.70	63.20	C	1	H490 ANKX 0904	H490 ANKX 0904..-FF	0.72
H490 E90AX D32-5-W32-09	30.0	32.00	1.4	58.70	63.20	W	1	H490 ANKX 0904	H490 ANKX 0904..-FF	0.60

- "B" Suffix cylindrical shank which may be shortened
- 1- with standard square insert
- 2- with FF (fast feed) insert
- When assembled the H490 ANKX 0904R12T-FF insert, tool diameter enlarges by 0.1 mm

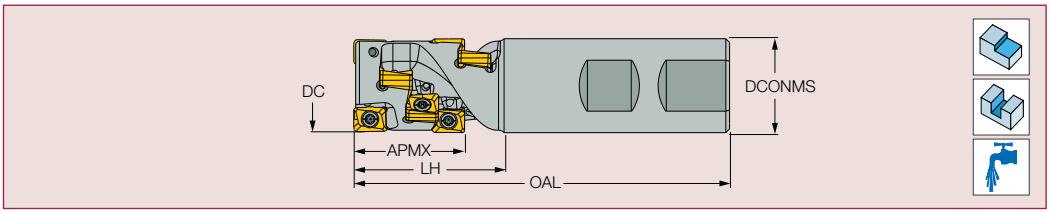
(1) Number of inserts (or edges for solid tool)
(2) Maximum side plunge
(3) Maximum ramping angle when using FF inserts
(4) C-Cylindrical, W-Weldon
(5) 0 - Without coolant supply, 1 - With coolant supply
(6) Master insert identification
(7) Master insert identification 2

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

HELIDO 490 LINE

H490 ANK-09

Extended Flute Endmills Carrying H490 ANKX 09... Double-Sided Rectangular Inserts with 4 Helical Cutting Edges



Designation	DC	APMX	NOF(1)	CICT(2)	LH	OAL	DCONMS	Shank(3)	CSP(4)	kg			
H490 ANK D25-35-2-W25-09C	25.00	35.00	2	10	38.0	100.00	25.00	W	1	0.30	SR 10508082-HG	BLD T08/M7	SW4-SD
H490 ANK D32-42-3-W32-09C	32.00	42.00	3	18	50.0	115.00	32.00	W	1	0.52	SR 10508082-HG	BLD T08/M7	SW4-SD

- AE(max)=0.25xDC

(1) Number of flutes
(2) Number of inserts (or edges for solid tool)
(3) W-Weldon
(4) 0 - Without coolant supply, 1 - With coolant supply

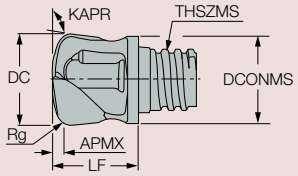
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

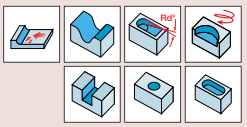
MULTI FEED MASTER

MM FF

Interchangeable 2 Flute FEED-MILL Solid Carbide Heads for Milling at Very Fast Feeds and Small D.O.C.







ECONOMICAL SOLUTION

Designation	Dimensions DC	NOF(1)	APMX	Rg(2)	THSZMS	DCONMS	LF	CSP(3)	KAPR(4)	RMPX°(5)	Tough ↔ Hard IC908	IC903	Recommended Machining Data f_z (mm/t)
MM FF100R1.5-L12-2T06	10.00	2	0.60	2.00	T06	9.60	12.50	0	97.0	7.0	●		0.30-0.60
MM FF120R2.0-2T08	12.00	2	0.68	2.50	T08	11.50	11.10	0	97.0	7.0	●	●	0.50-1.00
MM FF160R2.0-2T10	16.00	2	1.10	3.00	T10	15.20	13.50	0	97.0	7.0	●		0.55-1.10
MM FF200R2.0-2T12	20.00	2	1.50	3.40	T12	18.45	17.40	0	95.0	7.0	●		0.75-1.50

- Do not apply lubricant to the threaded connection

(1) Number of flutes
(2) Radius for programming
(3) 0 - Without coolant supply, 1 - With coolant supply
(4) Tool cutting edge angle
(5) Maximum ramping angle

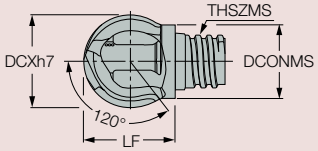
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

MULTI-MASTER

MM HBR

Interchangeable 2 Flute High Precision Ball Nose Solid Carbide Milling Heads







ECONOMICAL SOLUTION

Designation	Dimensions DCX(1)	NOF(2)	THSZMS	DCONMS	LF	CSP(3)		IC908
MM HBR080-2T04	8.00	2	T04	5.80	8.22	0	MM KEY 6X4*	●
MM HBR100-2T05	10.00	2	T05	7.60	10.00	0	MM KEY 6X4*	●
MM HBR120-2T06	12.00	2	T06	9.50	11.60	0	MM KEY 10X7*	●
MM HBR160-2T08	16.00	2	T08	12.20	15.40	0	MM KEY 13X8*	●
MM HBR200-2T10	20.00	2	T10	15.20	18.40	0	MM KEY 13X8*	●
MM HBR250-2T12	25.00	2	T12	18.30	23.20	0	MM KEY 16X9*	●

- Do not apply lubricant to the threaded connection

(1) Cutting diameter maximum
(2) Number of flutes
(3) 0 - Without coolant supply, 1 - With coolant supply
* Optional, to be ordered separately

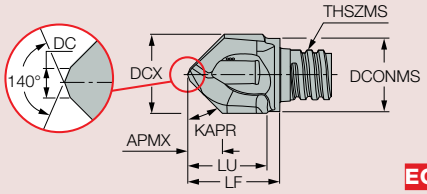
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

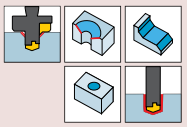
MULTI-MASTER

MM HCD

Interchangeable 2 Flute Solid Carbide Heads for Chamfering, Countersinking and Spot Drilling







ECONOMICAL SOLUTION

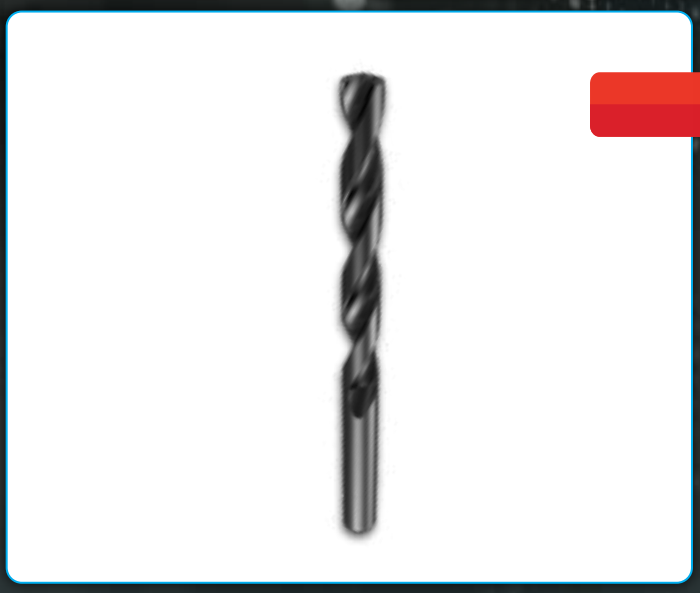
Designation	Dimensions											IC908
	DCX[4]	DCXTOL	NOF[5]	LU	THSZMS	DCONMS	LF	APMX	DC	KAPR[6]	CSP[7]	
MM HCD060-090-2T04	6.00	z9	2	6.86	T04	5.80	8.50	2.66	1.00	45.0	0	●
MM HCD080-060-2T05	8.00	h10	2	8.00	T05	7.60	10.50	6.08	1.20	60.0	0	●
MM HCD080-120-2T05	8.00	h10	2	7.80	T05	7.60	10.30	2.15	1.00	30.0	0	●
MM HCD080-090-2T05 [1]	8.00	z9	2	7.00	T05	7.60	9.75	3.15	1.00	45.0	0	●
MM HCD083-090-2T05 [1]	8.30	z9	2	7.50	T05	7.60	10.00	3.56	1.00	45.0	0	●
MM HCD.375-100-2T06 [2]	9.50	h10	2	9.70	T06	9.50	13.40	3.60	2.00	40.0	0	●
MM HCD.375-080-2T06	9.50	z9	2	9.00	T06	9.20	11.80	5.00	2.00	50.0	0	●
MM HCD100-060-2T06	10.00	h10	2	9.30	T06	9.50	11.75	7.60	1.50	60.0	0	●
MM HCD100-120-2T06	10.00	h10	2	9.50	T06	9.50	12.70	2.70	1.50	30.0	0	●
MM HCD100-090-2T06-N [1]	10.00	z9	2	10.10	T06	9.50	14.00	4.50	1.50	45.0	0	●
MM HCD104-090-2T06 [1]	10.40	z9	2	9.00	T06	9.50	11.75	4.60	1.50	45.0	0	●
MM HCD120-060-2T08	12.00	h10	2	11.00	T08	11.50	15.40	9.24	1.50	60.0	0	●
MM HCD120-120-2T08	12.00	h10	2	11.65	T08	11.50	15.20	3.50	1.50	30.0	0	●
MM HCD120-090-2T08 [1]	12.00	z9	2	12.00	T08	11.50	15.50	5.30	1.50	45.0	0	●
MM HCD124-090-2T08 [1]	12.40	z9	2	11.80	T08	11.50	15.50	5.50	1.50	45.0	0	●
MM HCD.500-080-2T08 [3]	12.70	z9	2	11.10	T08	12.20	15.50	6.80	1.50	50.0	0	●
MM HCD.500-100-2T08 [2]	12.70	z9	2	10.90	T08	11.50	14.70	4.90	1.50	40.0	0	●
MM HCD.625-080-2T10	15.90	z9	2	15.20	T10	15.00	18.80	8.80	1.50	50.0	0	●
MM HCD.625-100-2T10 [2]	15.90	z9	2	14.90	T10	15.10	19.00	6.20	2.00	40.0	0	●
MM HCD160-060-2T10	16.00	h10	2	16.20	T10	15.20	20.20	12.00	2.50	60.0	0	●
MM HCD160-120-2T10	16.00	h10	2	15.50	T10	15.20	19.90	4.40	1.50	30.0	0	●
MM HCD160-090-2T10-N	16.00	z9	2	15.70	T10	15.20	20.00	7.40	1.50	45.0	0	●
MM HCD165-090-2T10 [1]	16.50	z9	2	14.90	T10	15.20	18.80	7.10	1.50	45.0	0	●
MM HCD.750-080-2T12	19.05	z9	2	19.60	T12	18.45	24.70	11.00	2.00	50.0	0	●
MM HCD.750-100-2T12 [2]	19.05	z9	2	18.50	T12	18.30	23.60	7.50	1.50	40.0	0	●
MM HCD200-060-2T12	20.00	h10	2	18.20	T12	18.30	24.70	15.50	2.60	60.0	0	●
MM HCD200-120-2T12	20.00	h10	2	14.65	T12	18.30	21.15	5.50	1.50	30.0	0	●
MM HCD200-090-2T12 [1]	20.00	z9	2	18.20	T12	18.30	24.70	9.40	1.50	45.0	0	●

- Do not apply lubricant to the threaded connection

[1] May be used for F-type (fine) countersink according to DIN 74.
[2] May be used for 100° countersink according to ISO 5856, DIN EN 4072, ANSI B18.6.3-1972
[3] Countersink according to American National and British standard flat screws.
[4] Cutting diameter maximum
[5] Number of flutes
[6] Tool cutting edge angle
[7] 0 - Without coolant supply, 1 - With coolant supply

MAXVALUE

MINIMUM COST MAXIMUM OUTPUT





SUMO-CHAM

Exchangeable heads bring modular versatility to drilling, **lowering tooling costs, enabling productive performance across a wide range of materials, and reducing carbide scrap by replacing only the head instead of the entire tool.**

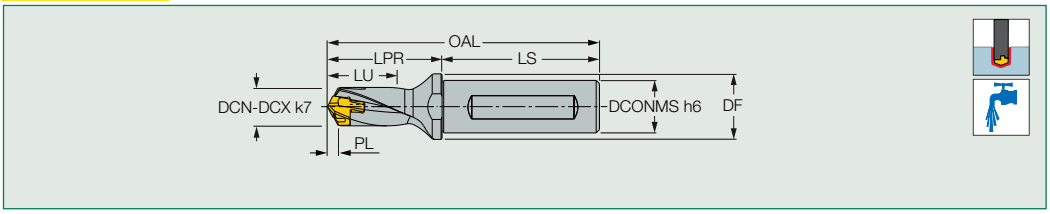


SUMOCHAM

DCN A-1.5D

Drill Body with Exchangeable Heads, Internal Coolant Holes and One Flat Shank, Drilling Depth 1.5xD

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT



Designation	DCN(1)	DCX(2)	DCONMS	DF	LU	LPR	PL	LS	OAL	SSC(3)	MIID(4)	
DCN 060-009-12A-1.5D	6.00	6.49	12.00	16.00	9.96	23.00	0.960	45.0	68.00	6.0	ICP 060	K DCN 6-9.99-Y
DCN 065-010-12A-1.5D	6.50	6.99	12.00	16.00	10.93	24.10	1.180	45.0	69.05	6.5	ICP 065	K DCN 6-9.99-Y
DCN 070-011-12A-1.5D	7.00	7.49	12.00	16.00	11.51	25.10	1.010	45.0	70.10	7.0	ICP 070	K DCN 6-9.99
DCN 075-011-12A-1.5D	7.50	7.99	12.00	16.00	12.35	25.90	1.100	45.0	70.85	7.0	ICP 075	K DCN 6-9.99
DCN 080-012-12A-1.5D	8.00	8.49	12.00	16.00	13.20	27.40	1.200	45.0	72.40	8.0	ICP 080	K DCN 6-9.99
DCN 085-013-12A-1.5D	8.50	8.99	12.00	16.00	14.04	28.20	1.290	45.0	73.15	8.0	ICP 085	K DCN 6-9.99
DCN 090-014-12A-1.5D	9.00	9.49	12.00	16.00	14.85	29.30	1.350	45.0	74.30	9.0	ICP 090	K DCN 6-9.99
DCN 095-014-12A-1.5D	9.50	9.99	12.00	16.00	15.69	30.10	1.440	45.0	75.05	9.0	ICP 095	K DCN 6-9.99
DCN 100-015-16A-1.5D	10.00	10.49	16.00	20.00	16.50	31.20	1.500	48.0	79.20	10.0	ICP 100	K DCN 10-13.99
DCN 105-016-16A-1.5D	10.50	10.99	16.00	20.00	17.34	32.00	1.590	48.0	79.95	10.0	ICP 105	K DCN 10-13.99
DCN 110-017-16A-1.5D	11.00	11.49	16.00	20.00	18.17	33.10	1.670	48.0	81.10	11.0	ICP 110	K DCN 10-13.99
DCN 115-017-16A-1.5D	11.50	11.99	16.00	20.00	19.01	33.90	1.590	48.0	80.00	11.0	ICP 115	K DCN 10-13.99
DCN 120-018-16A-1.5D	12.00	12.49	16.00	20.00	19.82	35.00	1.820	48.0	83.00	12.0	ICP 120	K DCN 10-13.99

- Do not mount smaller drilling heads other than the specified range of the drill body

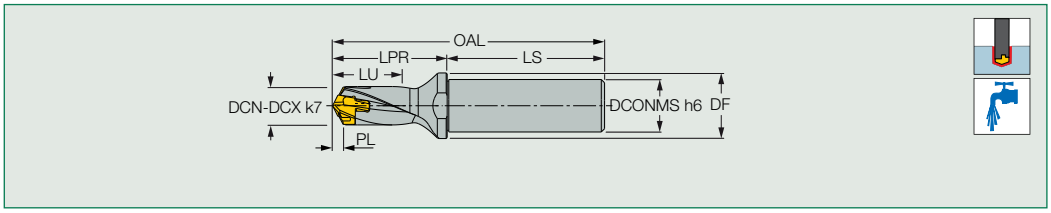
(1) Cutting diameter minimum
(2) Cutting diameter maximum
(3) Seat size code
(4) Master insert identification

SUMOCHAM

DCN R-1.5D

Drill Body with Exchangeable Heads, Internal Coolant Holes and a Cylindrical Shank, Drilling Depth 1.5xD

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT



Designation	DCN(1)	DCX(2)	DCONMS	DF	LU	LPR	PL	LS	OAL	SSC(3)	MIID(4)	
DCN 060-009-12R-1.5D	6.00	6.49	12.00	16.00	9.96	23.00	0.960	45.0	68.00	6.0	ICP 060	K DCN 6-9.99-Y
DCN 065-010-12R-1.5D	6.50	6.99	12.00	16.00	10.93	24.10	1.180	45.0	69.10	6.5	ICP 065	K DCN 6-9.99-Y
DCN 070-011-12R-1.5D	7.00	7.49	12.00	16.00	11.51	25.10	1.010	45.0	70.10	7.0	ICP 070	K DCN 6-9.99
DCN 075-011-12R-1.5D	7.50	7.99	12.00	16.00	12.35	25.90	1.100	45.0	70.90	7.0	ICP 075	K DCN 6-9.99
DCN 080-012-12R-1.5D	8.00	8.49	12.00	16.00	13.20	27.40	1.200	45.0	72.90	8.0	ICP 080	K DCN 6-9.99
DCN 085-013-12R-1.5D	8.50	8.99	12.00	16.00	14.04	28.20	1.290	45.0	73.20	8.0	ICP 085	K DCN 6-9.99
DCN 090-014-12R-1.5D	9.00	9.49	12.00	16.00	14.85	29.30	1.350	45.0	74.30	9.0	ICP 090	K DCN 6-9.99
DCN 095-014-12R-1.5D	9.50	9.99	12.00	16.00	15.69	30.10	1.440	45.0	75.10	9.0	ICP 095	K DCN 6-9.99
DCN 100-015-16R-1.5D	10.00	10.49	16.00	20.00	16.50	31.20	1.500	48.0	79.20	10.0	ICP 100	K DCN 10-13.99
DCN 105-016-16R-1.5D	10.50	10.99	16.00	20.00	17.34	32.00	1.590	48.0	80.00	10.0	ICP 105	K DCN 10-13.99
DCN 110-017-16R-1.5D	11.00	11.49	16.00	20.00	18.17	33.10	1.670	48.0	81.10	11.0	ICP 110	K DCN 10-13.99
DCN 115-017-16R-1.5D	11.50	11.99	16.00	20.00	19.01	33.90	1.760	48.0	81.90	11.0	ICP 115	K DCN 10-13.99
DCN 120-018-16R-1.5D	12.00	12.49	16.00	20.00	19.82	35.00	1.820	48.0	83.00	12.0	ICP 120	K DCN 10-13.99

- Do not mount smaller drilling heads other than the specified range of the drill body.

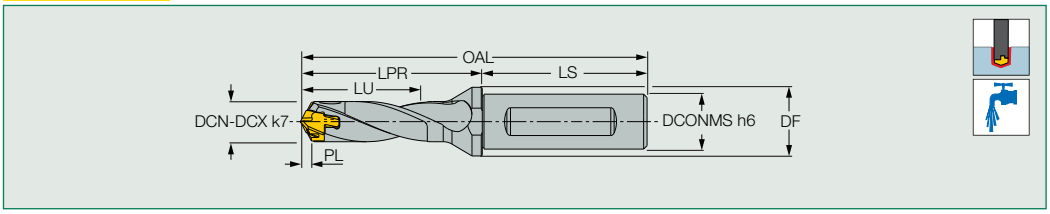
(1) Cutting diameter minimum
(2) Cutting diameter maximum
(3) Seat size code
(4) Master insert identification

SUMOCHAM

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

DCN A-3D

Drill Body with Exchangeable Heads, Internal Coolant Holes and One Flat Shank, Drilling Depth 3xD



Designation	DCN(1)	DCX(2)	DCONMS	DF	LU	LPR	PL	LS	OAL	SSC(3)	MIID(4)	
DCN 060-018-12A-3D	6.00	6.49	12.00	16.00	18.96	32.00	0.960	45.0	77.00	6.0	ICP 060	K DCN 6-9.99-Y
DCN 065-020-12A-3D	6.50	6.99	12.00	16.00	20.68	33.80	1.180	45.0	78.80	6.5	ICP 065	K DCN 6-9.99-Y
DCN 070-021-12A-3D	7.00	7.49	12.00	16.00	22.01	35.60	1.010	45.0	80.60	7.0	ICP 070	K DCN 6-9.99
DCN 075-023-12A-3D	7.50	7.99	12.00	16.00	23.60	37.10	1.100	45.0	82.10	7.0	ICP 075	K DCN 6-9.99
DCN 080-024-12A-3D	8.00	8.49	12.00	16.00	25.20	39.40	1.200	45.0	84.40	8.0	ICP 080	K DCN 6-9.99
DCN 085-025-12A-3D	8.50	8.99	12.00	16.00	26.79	40.90	1.290	45.0	85.90	8.0	ICP 085	K DCN 6-9.99
DCN 090-027-12A-3D	9.00	9.49	12.00	16.00	28.35	42.80	1.350	45.0	87.80	9.0	ICP 090	K DCN 6-9.99
DCN 095-029-12A-3D	9.50	9.99	12.00	16.00	29.94	44.30	1.440	45.0	89.30	9.0	ICP 095	K DCN 6-9.99
DCN 100-030-16A-3D	10.00	10.49	16.00	20.00	31.50	46.20	1.500	48.0	94.20	10.0	ICP 100	K DCN 10-13.99
DCN 105-032-16A-3D	10.50	10.99	16.00	20.00	33.09	47.70	1.590	48.0	95.70	10.0	ICP 105	K DCN 10-13.99
DCN 110-033-16A-3D	11.00	11.49	16.00	20.00	34.67	49.60	1.670	48.0	97.60	11.0	ICP 110	K DCN 10-13.99
DCN 115-035-16A-3D	11.50	11.99	16.00	20.00	36.26	51.10	1.760	48.0	99.10	11.0	ICP 115	K DCN 10-13.99
DCN 120-036-16A-3D	12.00	12.49	16.00	20.00	37.82	53.00	1.820	48.0	101.00	12.0	ICP 120	K DCN 10-13.99

- Do not mount smaller drilling heads other than the specified range of the drill body

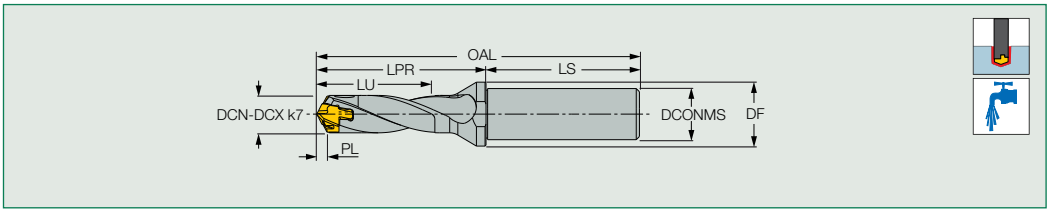
(1) Cutting diameter minimum
(2) Cutting diameter maximum
(3) Seat size code
(4) Master insert identification

SUMOCHAM

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

DCN R-3D

Drill Body with Exchangeable Heads, Internal Coolant Holes and a Cylindrical Shank, Drilling Depth 3xD



Designation	DCN(1)	DCX(2)	DCONMS	DF	LU	LPR	PL	LS	OAL	SSC(3)	MIID(4)	
DCN 060-018-12R-3D	6.00	6.49	12.00	16.00	18.96	32.0	0.960	45.0	77.00	6.0	ICP 060	K DCN 6-9.99-Y
DCN 065-020-12R-3D	6.50	6.99	12.00	16.00	20.68	33.8	1.180	45.0	78.80	6.5	ICP 065	K DCN 6-9.99-Y
DCN 070-021-12R-3D	7.00	7.49	12.00	16.00	22.01	35.6	1.010	45.0	80.60	7.0	ICP 070	K DCN 6-9.99
DCN 075-023-12R-3D	7.50	7.99	12.00	16.00	23.60	37.1	1.100	45.0	82.10	7.0	ICP 075	K DCN 6-9.99
DCN 080-024-12R-3D	8.00	8.49	12.00	16.00	25.20	39.4	1.200	45.0	84.40	8.0	ICP 080	K DCN 6-9.99
DCN 085-025-12R-3D	8.50	8.99	12.00	16.00	26.79	40.9	1.290	45.0	85.90	8.0	ICP 085	K DCN 6-9.99
DCN 090-027-12R-3D	9.00	9.49	12.00	16.00	28.35	42.8	1.350	45.0	87.80	9.0	ICP 090	K DCN 6-9.99
DCN 095-029-12R-3D	9.50	9.99	12.00	16.00	29.94	44.3	1.440	45.0	89.30	9.0	ICP 095	K DCN 6-9.99
DCN 100-030-16R-3D	10.00	10.49	16.00	20.00	31.50	46.2	1.500	48.0	94.20	10.0	ICP 100	K DCN 10-13.99
DCN 105-032-16R-3D	10.50	10.99	16.00	20.00	33.09	47.7	1.590	48.0	95.70	10.0	ICP 105	K DCN 10-13.99
DCN 110-033-16R-3D	11.00	11.49	16.00	20.00	34.67	49.6	1.670	48.0	97.60	11.0	ICP 110	K DCN 10-13.99
DCN 115-035-16R-3D	11.50	11.99	16.00	20.00	36.26	51.1	1.760	48.0	99.10	11.0	ICP 115	K DCN 10-13.99
DCN 120-036-16R-3D	12.00	12.49	16.00	20.00	37.82	53.0	1.820	48.0	101.00	12.0	ICP 120	K DCN 10-13.99

- Do not mount smaller drilling heads other than the specified range of the drill body

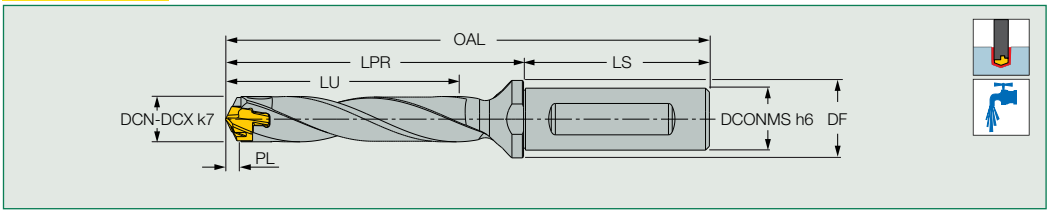
(1) Cutting diameter minimum
(2) Cutting diameter maximum
(3) Seat size code
(4) Master insert identification

SUMOCHAM

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

DCN A-5D

Drill Body with Exchangeable Heads, Internal Coolant Holes and One Flat Shank, Drilling Depth 5xD



Designation	DCN[1]	DCX[2]	DCONMS	DF	LU	LPR	PL	LS	OAL	SSC[3]	MIID[4]	
DCN 060-030-12A-5D	6.00	6.49	12.00	16.00	30.96	44.0	0.960	45.0	89.00	6.0	ICP 060	K DCN 6-9.99-Y
DCN 065-033-12A-5D	6.50	6.99	12.00	16.00	33.68	46.8	1.180	45.0	91.80	6.5	ICP 065	K DCN 6-9.99-Y
DCN 070-035-12A-5D	7.00	7.49	12.00	16.00	36.01	49.6	1.010	45.0	94.60	7.0	ICP 070	K DCN 6-9.99
DCN 075-038-12A-5D	7.50	7.99	12.00	16.00	38.60	52.1	1.100	45.0	97.10	7.0	ICP 075	K DCN 6-9.99
DCN 080-040-12A-5D	8.00	8.49	12.00	16.00	41.20	55.4	1.200	45.0	100.40	8.0	ICP 080	K DCN 6-9.99
DCN 085-042-12A-5D	8.50	8.99	12.00	16.00	43.79	57.9	1.290	45.0	102.90	8.0	ICP 085	K DCN 6-9.99
DCN 090-045-12A-5D	9.00	9.49	12.00	16.00	46.35	60.8	1.350	45.0	105.80	9.0	ICP 090	K DCN 6-9.99
DCN 095-048-12A-5D	9.50	9.99	12.00	16.00	48.94	63.3	1.440	45.0	108.30	9.0	ICP 095	K DCN 6-9.99
DCN 100-050-16A-5D	10.00	10.49	16.00	20.00	51.50	66.2	1.500	48.0	114.20	10.0	ICP 100	K DCN 10-13.99
DCN 105-053-16A-5D	10.50	10.99	16.00	20.00	54.09	68.7	1.590	48.0	116.70	10.0	ICP 105	K DCN 10-13.99
DCN 110-055-16A-5D	11.00	11.49	16.00	20.00	56.67	71.6	1.670	48.0	119.60	11.0	ICP 110	K DCN 10-13.99
DCN 115-058-16A-5D	11.50	11.99	16.00	20.00	59.26	74.1	1.760	48.0	122.10	11.0	ICP 115	K DCN 10-13.99
DCN 120-060-16A-5D	12.00	12.49	16.00	20.00	61.82	77.0	1.820	48.0	125.00	12.0	ICP 120	K DCN 10-13.99

- Do not mount smaller drilling heads other than the specified range of the drill body

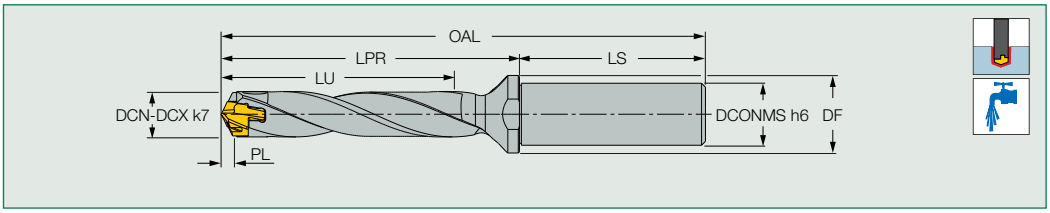
(1) Cutting diameter minimum
(2) Cutting diameter maximum
(3) Seat size code
(4) Master insert identification

SUMOCHAM

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

DCN R-5D

Drill Body with Exchangeable Heads, Internal Coolant Holes and a Cylindrical Shank, Drilling Depth 5xD



Designation	DCN[1]	DCX[2]	DCONMS	DF	LU	LPR	PL	LS	OAL	SSC[3]	MIID[4]	
DCN 060-030-12R-5D	6.00	6.49	12.00	16.00	30.96	44.00	0.960	45.0	89.00	6.0	ICP 060	K DCN 6-9.99-Y
DCN 065-033-12R-5D	6.50	6.99	12.00	16.00	33.68	46.80	1.180	45.0	91.80	6.5	ICP 065	K DCN 6-9.99-Y
DCN 070-035-12R-5D	7.00	7.49	12.00	16.00	36.01	49.60	1.010	45.0	94.60	7.0	ICP 070	K DCN 6-9.99
DCN 075-038-12R-5D	7.50	7.99	12.00	16.00	38.60	52.10	1.100	45.0	97.10	7.0	ICP 075	K DCN 6-9.99
DCN 080-040-12R-5D	8.00	8.49	12.00	16.00	41.20	55.40	1.200	45.0	100.40	8.0	ICP 080	K DCN 6-9.99
DCN 085-042-12R-5D	8.50	8.99	12.00	16.00	43.79	57.90	1.290	45.0	102.90	8.0	ICP 085	K DCN 6-9.99
DCN 090-045-12R-5D	9.00	9.49	12.00	16.00	46.35	60.80	1.350	45.0	105.80	9.0	ICP 090	K DCN 6-9.99
DCN 095-048-12R-5D	9.50	9.99	12.00	16.00	48.94	63.30	1.440	45.0	108.30	9.0	ICP 095	K DCN 6-9.99
DCN 100-050-16R-5D	10.00	10.49	16.00	20.00	51.50	66.20	1.500	48.0	114.20	10.0	ICP 100	K DCN 10-13.99
DCN 105-053-16R-5D	10.50	10.99	16.00	20.00	54.09	68.70	1.590	48.0	116.70	10.0	ICP 105	K DCN 10-13.99
DCN 110-055-16R-5D	11.00	11.49	16.00	20.00	56.67	71.60	1.670	48.0	119.60	11.0	ICP 110	K DCN 10-13.99
DCN 115-058-16R-5D	11.50	11.99	16.00	20.00	59.26	74.10	1.760	48.0	122.10	11.0	ICP 115	K DCN 10-13.99
DCN 120-060-16R-5D	12.00	12.49	16.00	20.00	61.82	77.00	1.820	48.0	125.00	12.0	ICP 120	K DCN 10-13.99

- Do not mount smaller drilling heads other than the specified range of the drill body

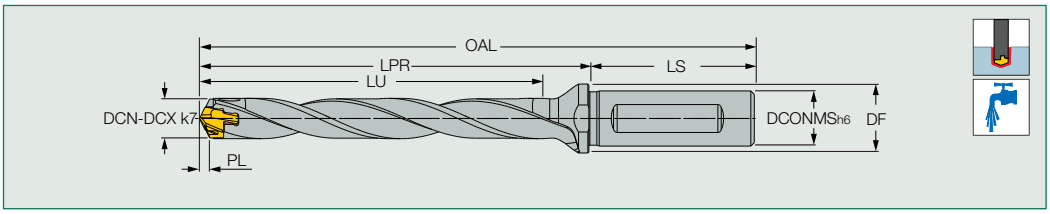
(1) Cutting diameter minimum
(2) Cutting diameter maximum
(3) Seat size code
(4) Master insert identification

SUMOCHAM

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

DCN A-8D

Drill Body with Exchangeable Heads, Internal Coolant Holes and One Flat Shank, Drilling Depth 8xD



Designation	DCN(1)	DCX(2)	DCONMS	DF	LU	LPR	PL	LS	OAL	SSC(3)	MIID(4)	
DCN 060-048-12A-8D	6.00	6.49	12.00	16.00	48.96	62.00	0.960	45.0	107.00	6.0	ICP 060	K DCN 6-9.99-Y
DCN 065-052-12A-8D	6.50	6.99	12.00	16.00	53.18	66.30	1.180	45.0	111.30	6.5	ICP 065	K DCN 6-9.99-Y
DCN 070-056-12A-8D	7.00	7.49	12.00	16.00	57.01	70.60	1.010	45.0	115.60	7.0	ICP 070	K DCN 6-9.99
DCN 075-060-12A-8D	7.50	7.99	12.00	16.00	61.10	74.60	1.100	45.0	120.00	7.0	ICP 075	K DCN 6-9.99
DCN 080-064-12A-8D	8.00	8.49	12.00	16.00	65.20	79.40	1.200	45.0	124.40	8.0	ICP 080	K DCN 6-9.99
DCN 085-068-12A-8D	8.50	8.99	12.00	16.00	69.29	83.40	1.290	45.0	128.40	8.0	ICP 085	K DCN 6-9.99
DCN 090-072-12A-8D	9.00	9.49	12.00	16.00	73.35	87.80	1.350	45.0	132.80	9.0	ICP 090	K DCN 6-9.99
DCN 095-076-12A-8D	9.50	9.99	12.00	16.00	77.44	91.80	1.440	45.0	136.80	9.0	ICP 095	K DCN 6-9.99
DCN 100-080-16A-8D	10.00	10.49	16.00	20.00	81.50	96.20	1.500	48.0	144.20	10.0	ICP 100	K DCN 10-13.99
DCN 105-084-16A-8D	10.50	10.99	16.00	20.00	85.59	100.20	1.590	48.0	148.20	10.0	ICP 105	K DCN 10-13.99
DCN 110-088-16A-8D	11.00	11.49	16.00	20.00	89.67	104.60	1.670	48.0	152.60	11.0	ICP 110	K DCN 10-13.99
DCN 115-092-16A-8D	11.50	11.99	16.00	20.00	93.76	108.60	1.760	48.0	156.60	11.0	ICP 115	K DCN 10-13.99
DCN 120-096-16A-8D	12.00	12.49	16.00	20.00	97.82	113.00	1.820	48.0	161.00	12.0	ICP 120	K DCN 10-13.99

- Prior to using the 8xD drill, it is recommended to drill a pre-hole by using a DCN 1.5xD drill or a centering drill. Not required if HCP or QCP drilling head is used
- Do not mount smaller drilling heads other than the specified range of the drill body

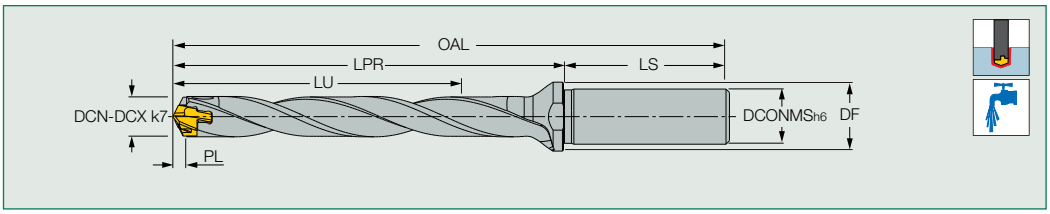
(1) Cutting diameter minimum
(2) Cutting diameter maximum
(3) Seat size code
(4) Master insert identification

SUMOCHAM

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

DCN R-8D

Drill Body with Exchangeable Heads, Internal Coolant Holes and a Cylindrical Shank, Drilling Depth 8xD



Designation	DCN(1)	DCX(2)	DCONMS	DF	LU	LPR	PL	LS	OAL	SSC(3)	MIID(4)	
DCN 060-048-12R-8D	6.00	6.49	12.00	16.00	48.96	62.00	0.960	45.0	107.00	6.0	ICP 060	K DCN 6-9.99-Y
DCN 065-052-12R-8D	6.50	6.99	12.00	16.00	53.18	66.30	1.180	45.0	111.30	6.5	ICP 065	K DCN 6-9.99-Y
DCN 070-056-12R-8D	7.00	7.49	12.00	16.00	57.01	70.60	1.010	45.0	115.60	7.0	ICP 070	K DCN 6-9.99
DCN 075-060-12R-8D	7.50	7.99	12.00	16.00	61.10	74.60	1.100	45.0	120.00	7.0	ICP 075	K DCN 6-9.99
DCN 080-064-12R-8D	8.00	8.49	12.00	16.00	65.20	79.40	1.200	45.0	124.40	8.0	ICP 080	K DCN 6-9.99
DCN 085-068-12R-8D	8.50	8.99	12.00	16.00	69.29	83.40	1.290	45.0	128.40	8.0	ICP 085	K DCN 6-9.99
DCN 090-072-12R-8D	9.00	9.49	12.00	16.00	73.35	87.80	1.350	45.0	132.80	9.0	ICP 090	K DCN 6-9.99
DCN 095-076-12R-8D	9.50	9.99	12.00	16.00	77.44	91.80	1.440	45.0	136.80	9.0	ICP 095	K DCN 6-9.99
DCN 100-080-16R-8D	10.00	10.49	16.00	20.00	81.50	96.20	1.500	48.0	144.20	10.0	ICP 100	K DCN 10-13.99
DCN 105-084-16R-8D	10.50	10.99	16.00	20.00	85.59	100.20	1.590	48.0	148.20	10.0	ICP 105	K DCN 10-13.99
DCN 110-088-16R-8D	11.00	11.49	16.00	20.00	89.67	104.60	1.670	48.0	152.60	11.0	ICP 110	K DCN 10-13.99
DCN 115-092-16R-8D	11.50	11.99	16.00	20.00	93.76	108.60	1.760	48.0	156.60	11.0	ICP 115	K DCN 10-13.99
DCN 120-096-16R-8D	12.00	12.49	16.00	20.00	97.82	113.00	1.820	48.0	161.00	12.0	ICP 120	K DCN 10-13.99

- Prior to using the 8xD drill, it is recommended to drill a pre-hole by using a DCN 1.5xD drill or a centering drill. Not required if HCP or QCP drilling head is used
- Do not mount smaller drilling heads other than the specified range of the drill body

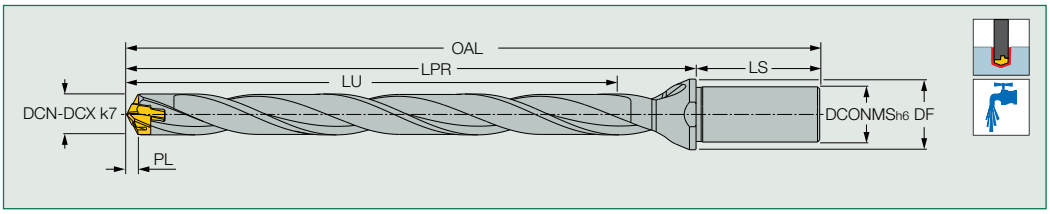
(1) Cutting diameter minimum
(2) Cutting diameter maximum
(3) Seat size code
(4) Master insert identification

SUMOCHAM

DCN R-12D

Drill Body with Exchangeable Heads, Internal Coolant Holes and a Cylindrical Shank, Drilling Depth 12xD

MAXVALUE MINIMUM COST MAXIMUM OUTPUT



Designation	DCN(1)	DCX(2)	DCONMS	DF	LU	LPR	PL	LS	OAL	SSC(3)	MIID(4)	
DCN 080-096-12R-12D	8.00	8.49	12.00	16.00	97.20	111.4	1.200	45.0	156.40	8.0	ICP 080	K DCN 6-9.99
DCN 085-102-12R-12D	8.50	8.99	12.00	16.00	103.29	117.4	1.290	45.0	162.40	8.0	ICP 085	K DCN 6-9.99
DCN 090-108-12R-12D	9.00	9.49	12.00	16.00	109.35	123.8	1.350	45.0	168.80	9.0	ICP 090	K DCN 6-9.99
DCN 095-114-12R-12D	9.50	9.99	12.00	16.00	115.44	129.8	1.440	45.0	174.80	9.0	ICP 095	K DCN 6-9.99
DCN 100-120-16R-12D	10.00	10.49	16.00	20.00	121.50	136.2	1.500	48.0	184.20	10.0	ICP 100	K DCN 10-13.99
DCN 105-126-16R-12D	10.50	10.99	16.00	20.00	127.59	142.2	1.590	48.0	190.20	10.0	ICP 105	K DCN 10-13.99
DCN 110-132-16R-12D	11.00	11.49	16.00	20.00	133.67	148.6	1.670	48.0	196.60	11.0	ICP 110	K DCN 10-13.99
DCN 115-138-16R-12D	11.50	11.99	16.00	20.00	139.76	154.6	1.760	48.0	202.60	11.0	ICP 115	K DCN 10-13.99
DCN 120-144-16R-12D	12.00	12.49	16.00	20.00	145.82	161.0	1.820	48.0	209.00	12.0	ICP 120	K DCN 10-13.99

- Prior to using the 12xD drill, it is recommended to drill a pre-hole by using a DCN 1.5xD drill or a centering drill
- The HCP or QCP drilling head may eliminate the need for a pre-hole
- Do not mount smaller drilling heads other than the specified range of the drill body

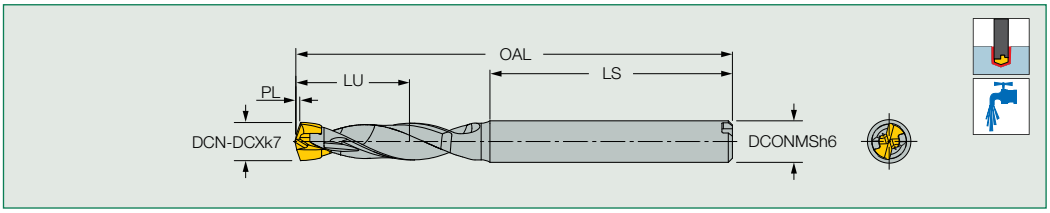
(1) Cutting diameter minimum
(2) Cutting diameter maximum
(3) Seat size code
(4) Master insert identification

SUMOCHAM

DCN C-3D

Drill Body with Exchangeable Heads, Internal Coolant Holes and a Cylindrical Shank, Drilling Depth 3xD

MAXVALUE MINIMUM COST MAXIMUM OUTPUT



Designation	DCN(2)	DCX(3)	DCONMS	LU	PL	LS	OAL	SSC(4)	MIID(5)	
DCN 040-012-06C-3D (1)	4.00	4.49	6.00	12.62	0.620	35.0	57.70	4.0	ICP 040	
DCN 045-014-06C-3D (1)	4.50	4.99	6.00	14.16	0.660	35.0	59.65	4.5	ICP 045	
DCN 050-015-06C-3D (1)	5.00	5.49	6.00	15.73	0.730	35.0	61.30	5.0	ICP 050	
DCN 055-017-06C-3D (1)	5.50	5.99	6.00	17.31	0.810	35.0	63.15	5.5	ICP 055	
DCN 060-018-08C-3D	6.00	6.49	8.00	18.96	0.960	36.0	64.00	6.0	ICP 060	K DCN 6-9.99-Y
DCN 065-020-08C-3D	6.50	6.99	8.00	20.68	1.180	36.0	65.80	6.5	ICP 065	K DCN 6-9.99-Y
DCN 070-021-08C-3D	7.00	7.49	8.00	22.01	1.010	36.0	67.60	7.0	ICP 070	K DCN 6-9.99
DCN 075-023-08C-3D	7.50	7.99	8.00	23.60	1.100	36.0	69.10	7.0	ICP 075	K DCN 6-9.99
DCN 080-024-10C-3D	8.00	8.49	10.00	25.20	1.200	40.0	75.40	8.0	ICP 080	K DCN 6-9.99
DCN 085-026-10C-3D	8.50	8.99	10.00	26.79	1.290	40.0	76.90	8.0	ICP 085	K DCN 6-9.99
DCN 090-027-10C-3D	9.00	9.49	10.00	28.35	1.350	40.0	78.80	9.0	ICP 090	K DCN 6-9.99
DCN 095-029-10C-3D	9.50	9.99	10.00	29.94	1.440	40.0	80.30	9.0	ICP 095	K DCN 6-9.99

- Do not mount smaller drilling heads other than the specified range of the drill body

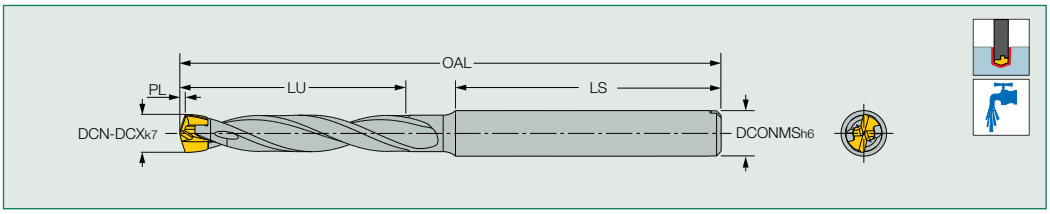
(1) The SK DCN key is supplied with the insert
(2) Cutting diameter minimum
(3) Cutting diameter maximum
(4) Seat size code
(5) Master insert identification

SUMOCHAM

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

DCN C-5D

Drill Body with Exchangeable Heads, Internal Coolant Holes and a Cylindrical Shank, Drilling Depth 5xD



Designation	DCN(2)	DCX(3)	DCONMS	LU	PL	LS	OAL	SSC(4)	MIID(5)	
DCN 040-020-06C-5D (1)	4.00	4.49	6.00	20.62	0.620	35.0	65.70	4.0	ICP 040	
DCN 045-023-06C-5D (1)	4.50	4.99	6.00	23.16	0.660	35.0	68.65	4.5	ICP 045	
DCN 050-025-06C-5D (1)	5.00	5.49	6.00	25.73	0.730	35.0	71.30	5.0	ICP 050	
DCN 055-028-06C-5D (1)	5.50	5.99	6.00	28.31	0.810	35.0	74.15	5.5	ICP 055	
DCN 060-030-08C-5D	6.00	6.49	8.00	30.96	0.960	36.0	76.00	6.0	ICP 060	K DCN 6-9.99-Y
DCN 065-033-08C-5D	6.50	6.99	8.00	33.68	1.180	36.0	78.80	6.5	ICP 065	K DCN 6-9.99-Y
DCN 070-035-08C-5D	7.00	7.49	8.00	36.01	1.010	36.0	81.60	7.0	ICP 070	K DCN 6-9.99
DCN 075-038-08C-5D	7.50	7.99	8.00	38.60	1.100	36.0	84.10	7.0	ICP 075	K DCN 6-9.99
DCN 080-040-10C-5D	8.00	8.49	10.00	41.20	1.200	40.0	91.40	8.0	ICP 080	K DCN 6-9.99
DCN 085-043-10C-5D	8.50	8.99	10.00	43.79	1.290	40.0	93.90	8.0	ICP 085	K DCN 6-9.99
DCN 090-045-10C-5D	9.00	9.49	10.00	46.35	1.350	40.0	96.80	9.0	ICP 090	K DCN 6-9.99
DCN 095-048-10C-5D	9.50	9.99	10.00	48.94	1.440	40.0	99.30	9.0	ICP 095	K DCN 6-9.99

- Do not mount smaller drilling heads other than the specified range of the drill body

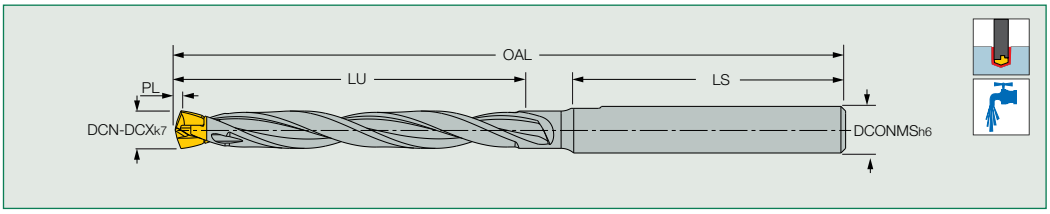
(1) The SK DCN key is supplied with the insert
(2) Cutting diameter minimum
(3) Cutting diameter maximum
(4) Seat size code
(5) Master insert identification

SUMOCHAM

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

DCN C-8D

Drill Body with Exchangeable Heads, Internal Coolant Holes and a Cylindrical Shank, Drilling Depth 8xD



Designation	DCN(1)	DCX(2)	DCONMS	LU	PL	LS	OAL	SSC(3)	MIID(4)
DCN 040-032-06C-8D	4.00	4.49	6.00	32.62	0.620	35.0	77.70	4.0	ICP 040
DCN 045-036-06C-8D	4.50	4.99	6.00	36.66	0.660	35.0	82.15	4.5	ICP 045
DCN 050-040-06C-8D	5.00	5.49	6.00	40.73	0.730	35.0	86.30	5.0	ICP 050
DCN 055-044-06C-8D	5.50	5.99	6.00	44.81	0.810	35.0	90.65	5.5	ICP 055

- Do not mount smaller drilling heads other than the specified range of the drill body

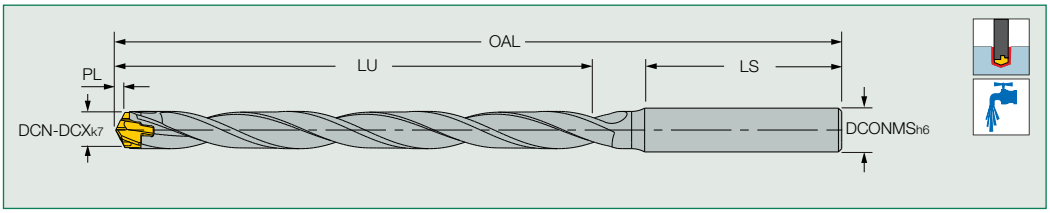
(1) Cutting diameter minimum
(2) Cutting diameter maximum
(3) Seat size code
(4) Master insert identification

SUMOCHAM

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

DCN C-12D

Drill Body with Exchangeable Heads, Internal Coolant Holes and a Cylindrical Shank, Drilling Depth 12xD



Designation	DCN(1)	DCX(2)	DCONMS	LU	PL	LS	OAL	SSC(3)	MIID(4)	
DCN 060-072-08C-12D	6.00	6.49	8.00	72.96	0.960	36.0	120.00	6.0	ICP 060	K DCN 6-9.99-Y
DCN 065-078-08C-12D	6.50	6.99	8.00	79.18	1.180	36.0	126.30	6.5	ICP 065	K DCN 6-9.99-Y
DCN 070-084-08C-12D	7.00	7.49	8.00	85.01	1.010	36.0	132.60	7.0	ICP 070	K DCN 6-9.99
DCN 075-090-08C-12D	7.50	7.99	8.00	91.10	1.100	36.0	136.60	7.0	ICP 075	K DCN 6-9.99

- Prior to using the 12xD drill, it is recommended to drill a pre-hole by using a DCN 1.5xD drill or a centering drill
- The HCP or QCP drilling head may eliminate the need for a pre-hole • Do not mount smaller drilling heads other than the specified range of the drill body

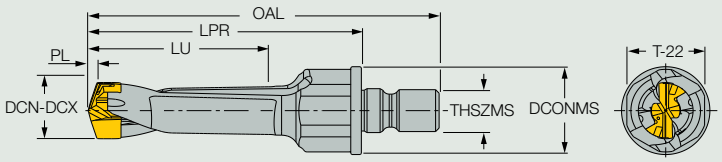
(1) Cutting diameter minimum
(2) Cutting diameter maximum
(3) Seat size code
(4) Master insert identification

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

SUMOCHAM

DCNM

Modular SUMO-CHAM Drill with FLEX-FIT Connection for Multi-Spindle and Swiss-Type Machines



Designation	DCN[1]	DCX[2]	DCONMS	LU	LPR	PL	OAL	THSZMS	SSC[3]	MIID[4]	TQ_3[5]	
DCNM 060-018-M12-3D	6.00	6.49	25.00	22.00	42.0	0.960	64.00	M12	6.0	ICP 060	33	K DCN 6-9.99-Y
DCNM 065-020-M12-3D	6.50	6.99	25.00	24.30	44.3	1.180	66.30	M12	6.5	ICP 065	33	K DCN 6-9.99-Y
DCNM 070-021-M12-3D	7.00	7.49	25.00	25.60	45.6	1.010	67.60	M12	7.0	ICP 070	33	K DCN 6-9.99
DCNM 075-023-M12-3D	7.50	7.99	25.00	27.60	47.6	1.100	69.60	M12	7.0	ICP 075	33	K DCN 6-9.99
DCNM 080-024-M12-3D	8.00	8.49	25.00	29.40	49.4	1.200	71.40	M12	8.0	ICP 080	33	K DCN 6-9.99
DCNM 085-025-M12-3D	8.50	8.99	25.00	30.40	50.4	1.290	72.40	M12	8.0	ICP 085	33	K DCN 6-9.99
DCNM 090-027-M12-3D	9.00	9.49	25.00	32.80	52.8	1.350	74.80	M12	9.0	ICP 090	33	K DCN 6-9.99
DCNM 095-029-M12-3D	9.50	9.99	25.00	34.80	54.8	1.440	76.80	M12	9.0	ICP 095	33	K DCN 6-9.99
DCNM 100-030-M12-3D	10.00	10.49	25.00	36.20	56.2	1.500	78.20	M12	10.0	ICP 100	33	K DCN 10-13.99
DCNM 105-032-M12-3D	10.50	10.99	25.00	38.20	58.2	1.590	80.20	M12	10.0	ICP 105	33	K DCN 10-13.99
DCNM 110-033-M12-3D	11.00	11.49	25.00	39.60	59.6	1.670	81.60	M12	11.0	ICP 110	33	K DCN 10-13.99
DCNM 115-035-M12-3D	11.50	11.99	25.00	41.60	61.6	1.760	83.60	M12	11.0	ICP 115	33	K DCN 10-13.99
DCNM 120-036-M12-3D	12.00	12.49	25.00	43.00	63.0	1.820	85.00	M12	12.0	ICP 120	33	K DCN 10-13.99

- Before mounting the FLEX-FIT adaptation, clean the mating surfaces and threads. Tighten to eliminate gaps, using the torque value from TQ_3.
- Do not mount smaller drilling heads other than the specified range of the drill body

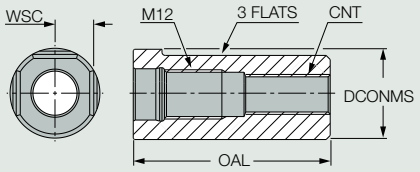
(1) Cutting diameter minimum
(2) Cutting diameter maximum
(3) Seat size code
(4) Master insert identification
(5) Tool tightening torque Nxm (lbfxin)

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

FLEXFIT

FLEX-FIT HOLDER

FLEX-FIT Threaded Modular Shank with 3 Flats for Side Clamping



Designation	DCONMS	OAL	WSC[1]	CNT
FLEX-FIT 160-HOLDER-DCN-MS	16.00	36.00	7.5	5/16"-24
FLEX-FIT 1905-HOLDER-DCNMS	19.05	36.00	8.5	5/16"-24
FLEX-FIT 200-HOLDER-DCN-MS	20.00	36.00	8.5	G1/8" BSP
FLEX-FIT 220-HOLDER-DCN-MS	22.00	48.00	9.5	G1/8" BSP
FLEX-FIT 250-HOLDER-DCN-MS	25.00	54.00	11.0	G1/8" BSP
FLEX-FIT 254-HOLDER-DCN-MS	25.40	54.00	11.0	G1/8" BSP

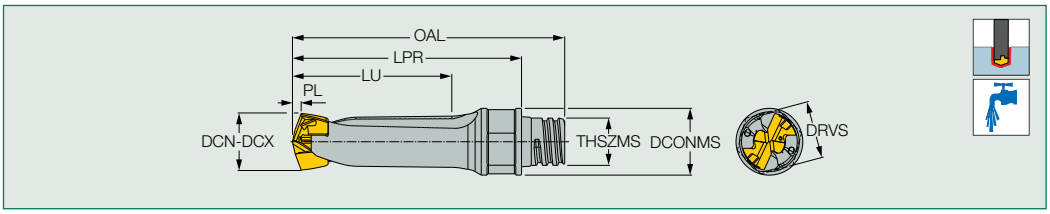
(1) For all 3 flats

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

SUMOCHAM

DCN-MM

Modular Drill Body with Exchangeable Heads, Internal Coolant Holes and MULTI-MASTER Connection, Drilling Depth 2xD



Designation	DCN[2]	DCX[3]	DCONMS	LU	LPR	PL	OAL	THSZMS	SSC[4]	MIID[5]	DRVS[6]	CSP[7]	
DCN 040-008-MMT05-2D [1]	4.00	4.49	7.60	8.62	22.00	0.620	28.75	T05	4.0	ICP 040	5.5	1	
DCN 045-009-MMT05-2D [1]	4.50	4.99	7.60	9.66	23.30	0.660	30.05	T05	4.5	ICP 045	5.5	1	
DCN 050-010-MMT06-2D [1]	5.00	5.49	9.60	10.73	27.25	0.730	33.55	T06	5.0	ICP 050	8.0	1	
DCN 055-011-MMT06-2D [1]	5.50	5.99	9.60	11.81	27.50	0.810	33.80	T06	5.5	ICP 055	8.0	1	
DCN 060-012-MMT06-2D	6.00	6.49	9.60	12.96	27.90	0.960	34.20	T06	6.0	ICP 060	8.0	1	K DCN 6-9.99-Y
DCN 065-013-MMT06-2D	6.50	6.99	9.60	14.18	29.50	1.180	35.80	T06	6.5	ICP 065	8.0	1	K DCN 6-9.99-Y
DCN 070-014-MMT06-2D	7.00	7.49	9.60	15.01	30.10	1.010	36.39	T06	7.0	ICP 070	8.0	1	K DCN 6-9.99
DCN 075-015-MMT06-2D	7.50	7.99	9.60	16.01	31.10	1.100	37.40	T06	7.0	ICP 075	8.0	1	K DCN 6-9.99
DCN 080-016-MMT06-2D	8.00	8.49	9.60	17.18	32.90	1.200	39.19	T06	8.0	ICP 080	8.0	1	K DCN 6-9.99
DCN 085-017-MMT06-2D	8.50	8.99	9.60	18.29	33.90	1.290	40.19	T06	8.0	ICP 085	8.0	1	K DCN 6-9.99
DCN 090-018-MMT08-2D	9.00	9.49	11.60	19.35	37.40	1.350	44.90	T08	9.0	ICP 090	10.0	1	K DCN 6-9.99
DCN 095-019-MMT08-2D	9.50	9.99	11.60	20.44	38.40	1.440	45.90	T08	9.0	ICP 095	10.0	1	K DCN 6-9.99
DCN 100-020-MMT08-2D	10.00	10.49	11.60	21.50	39.80	1.500	47.30	T08	10.0	ICP 100	10.0	1	K DCN 10-13.99

- Do not mount smaller drilling heads other than the specified range of the drill body

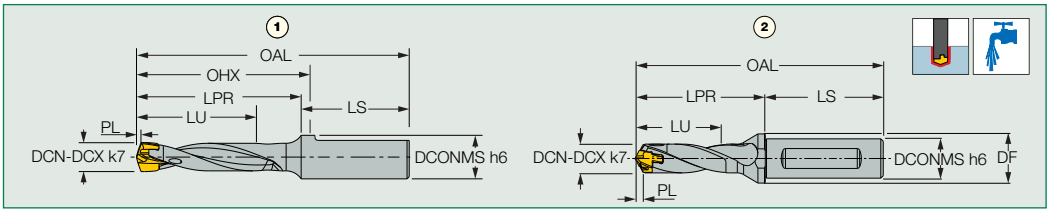
[1] The SK DCN key is supplied with the insert
[2] Cutting diameter minimum
[3] Cutting diameter maximum
[4] Seat size code
[5] Master insert identification
[6] Torque key size
[7] 0 - Without coolant supply, 1 - With coolant supply

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

PICCOSUMOCHAM

DCN-PICCO

Drill Body with Exchangeable Heads, Internal Coolant Holes and PICCO Connection, Drilling Depth 3xD



Designation	DCN[2]	DCX[3]	DCONMS	DF	LU	LPR	OHX[4]	PL	LS	OAL	SSC[5]	Fig.	MIID[6]	
DCN 040-012-06-3D-PICCO [1]	4.00	4.49	6.00	-	12.62	22.70	23.2	0.620	14.9	37.60	4.0	1	ICP 040	
DCN 045-014-06-3D-PICCO [1]	4.50	4.99	6.00	-	14.66	24.65	25.1	0.660	14.9	39.55	4.5	1	ICP 045	
DCN 050-015-06-3D-PICCO [1]	5.00	5.49	6.00	-	15.73	26.30	26.8	0.730	14.9	41.20	5.0	1	ICP 050	
DCN 055-017-06-3D-PICCO [1]	5.50	5.99	6.00	-	17.81	27.95	28.6	0.810	14.9	42.85	5.5	1	ICP 055	
DCN 060-018-06-3D-PICCO	6.00	6.49	6.00	-	18.96	29.60	30.1	0.960	14.9	44.50	6.0	1	ICP 060	K DCN 6-9.99-Y
DCN 065-020-06-3D-PICCO	6.50	6.99	6.00	-	21.18	30.67	31.8	1.180	15.6	46.30	6.5	1	ICP 065	K DCN 6-9.99-Y
DCN 070-021-08-3D-PICCO	7.00	7.49	8.00	10.00	22.01	35.60	-	1.010	20.0	55.60	7.0	2	ICP 070	K DCN 6-9.99
DCN 075-023-08-3D-PICCO	7.50	7.99	8.00	10.00	24.10	37.10	-	1.100	20.0	57.10	7.0	2	ICP 075	K DCN 6-9.99
DCN 080-024-08-3D-PICCO	8.00	8.49	8.00	10.00	25.20	39.40	-	1.200	20.0	59.40	8.0	2	ICP 080	K DCN 6-9.99
DCN 085-026-08-3D-PICCO	8.50	8.99	8.00	10.00	26.35	40.90	-	1.350	20.0	60.90	8.0	2	ICP 085	K DCN 6-9.99
DCN 090-027-08-3D-PICCO	9.00	9.49	8.00	10.00	28.35	43.30	-	1.350	20.0	63.30	9.0	2	ICP 090	K DCN 6-9.99
DCN 095-029-08-3D-PICCO	9.50	9.99	8.00	11.00	30.44	44.30	-	1.440	20.0	64.30	9.0	2	ICP 095	K DCN 6-9.99
DCN 100-030-08-3D-PICCO	10.00	10.49	8.00	11.00	31.50	46.20	-	1.500	20.0	66.20	10.0	2	ICP 100	K DCN 10-13.99
DCN 105-032-08-3D-PICCO	10.50	10.99	8.00	11.00	33.00	47.70	-	1.590	20.0	67.69	10.5	2	ICP 105	K DCN 10-13.99

- Do not mount smaller drilling heads other than the specified range of the drill body

[1] The SK DCN key is supplied with the insert
[2] Cutting diameter minimum
[3] Cutting diameter maximum
[4] Maximum overhang
[5] Seat size code
[6] Master insert identification

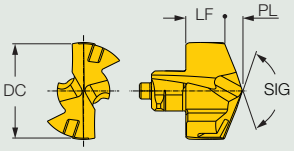
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

SUMOCHAM

ICP

Exchangeable SUMO-CHAM Drilling Heads for Machining ISO P Materials







Designation	Dimensions DC	PL	LF	SIG(1)	SSC(2)		IC908
ICP 040	4.00	0.620	2.48	140	4.0	SK DCN 4-4.99	•
ICP 041	4.10	0.640	2.46	140	4.0	SK DCN 4-4.99	•
ICP 042	4.20	0.660	2.44	140	4.0	SK DCN 4-4.99	•
ICP 043	4.30	0.670	2.43	140	4.0	SK DCN 4-4.99	•
ICP 044	4.40	0.690	2.41	140	4.0	SK DCN 4-4.99	•
ICP 045	4.50	0.660	2.89	140	4.5	SK DCN 4-4.99	•
ICP 046	4.60	0.680	2.87	140	4.5	SK DCN 4-4.99	•
ICP 047	4.70	0.700	2.85	140	4.5	SK DCN 4-4.99	•
ICP 048	4.80	0.710	2.84	140	4.5	SK DCN 4-4.99	•
ICP 049	4.90	0.730	2.82	140	4.5	SK DCN 4-4.99	•
ICP 050	5.00	0.730	2.97	140	5.0	SK DCN 5-5.99	•
ICP 051	5.10	0.750	2.95	140	5.0	SK DCN 5-5.99	•
ICP 052	5.20	0.770	2.93	140	5.0	SK DCN 5-5.99	•
ICP 053	5.30	0.780	2.92	140	5.0	SK DCN 5-5.99	•
ICP 054	5.40	0.800	2.90	140	5.0	SK DCN 5-5.99	•
ICP 055	5.50	0.810	3.04	140	5.5	SK DCN 5-5.99	•
ICP 056	5.60	0.830	3.02	140	5.5	SK DCN 5-5.99	•
ICP 057	5.70	0.850	3.00	140	5.5	SK DCN 5-5.99	•
ICP 058	5.80	0.860	2.99	140	5.5	SK DCN 5-5.99	•
ICP 059	5.90	0.880	2.97	140	5.5	SK DCN 5-5.99	•
ICP 060	6.00	0.960	3.04	140	6.0		•
ICP 061	6.10	0.980	3.02	140	6.0		•
ICP 062	6.20	1.000	3.00	140	6.0		•
ICP 063	6.30	1.010	2.99	140	6.0		•
ICP 0635	6.35	1.020	2.98	140	6.0		•
ICP 064	6.40	1.030	2.97	140	6.0		•
ICP 065	6.50	1.180	3.12	140	6.5		•
ICP 066	6.60	1.200	3.10	140	6.5		•
ICP 067	6.70	1.220	3.08	140	6.5		•
ICP 068	6.80	1.230	3.07	140	6.5		•
ICP 069	6.90	1.250	3.05	140	6.5		•
ICP 070	7.00	1.010	3.59	140	7.0		•
ICP 071	7.10	1.030	3.57	140	7.0		•
ICP 072	7.20	1.050	3.55	140	7.0		•
ICP 073	7.30	1.060	3.54	140	7.0		•
ICP 074	7.40	1.080	3.52	140	7.0		•
ICP 075	7.50	1.100	3.50	140	7.0		•
ICP 076	7.60	1.120	3.48	140	7.0		•
ICP 077	7.70	1.140	3.46	140	7.0		•
ICP 078	7.80	1.160	3.44	140	7.0		•
ICP 079	7.90	1.170	3.43	140	7.0		•
ICP 080	8.00	1.200	4.20	140	8.0		•
ICP 081	8.10	1.220	4.18	140	8.0		•
ICP 082	8.20	1.240	4.16	140	8.0		•
ICP 083	8.30	1.250	4.15	140	8.0		•
ICP 084	8.40	1.270	4.13	140	8.0		•
ICP 085	8.50	1.290	4.11	140	8.0		•
ICP 086	8.60	1.310	4.09	140	8.0		•
ICP 087	8.70	1.330	4.07	140	8.0		•
ICP 088	8.80	1.350	4.05	140	8.0		•
ICP 089	8.90	1.360	4.04	140	8.0		•
ICP 090	9.00	1.350	4.45	140	9.0		•
ICP 091	9.10	1.370	4.43	140	9.0		•
ICP 092	9.20	1.390	4.41	140	9.0		•
ICP 093	9.30	1.400	4.40	140	9.0		•
ICP 094	9.40	1.420	4.38	140	9.0		•
ICP 095	9.50	1.440	4.36	140	9.0		•
ICP 096	9.60	1.460	4.34	140	9.0		•
ICP 097	9.70	1.480	4.32	140	9.0		•
ICP 098	9.80	1.500	4.30	140	9.0		•

• The drill head has a honed cutting edge

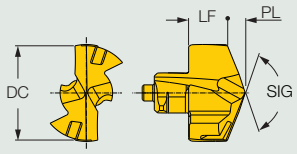
(1) SIG angle varies ±5°; depends on insert design optimization

(2) Seat size code

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

ICP
Exchangeable SUMO-CHAM Drilling Heads for Machining ISO P Materials







Designation	Dimensions DC	PL	LF	SIG(1)	SSC(2)	IC908
ICP 099	9.90	1.510	4.29	140	9.0	•
ICP 100	10.00	1.500	4.70	140	10.0	•
ICP 101	10.10	1.520	4.68	140	10.0	•
ICP 102	10.20	1.540	4.66	140	10.0	•
ICP 103	10.30	1.550	4.65	140	10.0	•
ICP 104	10.40	1.570	4.63	140	10.0	•
ICP 105	10.50	1.590	4.61	140	10.0	•
ICP 106	10.60	1.610	4.59	140	10.0	•
ICP 107	10.70	1.630	4.57	140	10.0	•
ICP 108	10.80	1.650	4.55	140	10.0	•
ICP 109	10.90	1.660	4.54	140	10.0	•
ICP 110	11.00	1.670	4.93	140	11.0	•
ICP 111	11.10	1.690	4.91	140	11.0	•
ICP 112	11.20	1.710	4.89	140	11.0	•
ICP 113	11.30	1.720	4.88	140	11.0	•
ICP 114	11.40	1.740	4.86	140	11.0	•
ICP 115	11.50	1.760	4.84	140	11.0	•
ICP 116	11.60	1.780	4.82	140	11.0	•
ICP 117	11.70	1.800	4.80	140	11.0	•
ICP 118	11.80	1.820	4.78	140	11.0	•
ICP 119	11.90	1.830	4.77	140	11.0	•
ICP 120	12.00	1.820	5.18	140	12.0	•

• The drill head has a honed cutting edge
(1) SIG angle varies ±5°; depends on insert design optimization
(2) Seat size code

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT



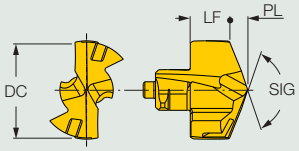
SUMOCHAM

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

ICM

Exchangeable SUMO-CHAM Drilling Heads for Machining ISO M and ISO S Materials







Designation	Dimensions DC	PL	LF	SIG(1)	SSC(2)		Tough ↔ Hard IC908	IC907
ICM 050	5.00	0.700	3.00	140	5.0	SK DCN 5-5.99	•	
ICM 051	5.10	0.720	2.98	140	5.0	SK DCN 5-5.99	•	
ICM 052	5.20	0.740	2.96	140	5.0	SK DCN 5-5.99	•	
ICM 053	5.30	0.750	2.95	140	5.0	SK DCN 5-5.99	•	
ICM 054	5.40	0.770	2.93	140	5.0	SK DCN 5-5.99	•	
ICM 055	5.50	0.900	2.95	140	5.5	SK DCN 5-5.99	•	
ICM 056	5.60	0.920	2.93	140	5.5	SK DCN 5-5.99	•	
ICM 057	5.70	0.940	2.91	140	5.5	SK DCN 5-5.99	•	
ICM 058	5.80	0.960	2.89	140	5.5	SK DCN 5-5.99	•	
ICM 059	5.90	0.970	2.88	140	5.5	SK DCN 5-5.99	•	
ICM 060	6.00	0.960	3.04	140	6.0		•	
ICM 061	6.10	0.980	3.02	140	6.0		•	
ICM 062	6.20	1.000	3.00	140	6.0		•	
ICM 063	6.30	1.010	2.99	140	6.0		•	
ICM 0635	6.35	1.020	2.98	140	6.0		•	
ICM 064	6.40	1.030	2.97	140	6.0		•	
ICM 065	6.50	1.270	3.03	140	6.5		•	
ICM 066	6.60	1.290	3.01	140	6.5		•	
ICM 067	6.70	1.310	2.99	140	6.5		•	
ICM 068	6.80	1.330	2.97	140	6.5		•	
ICM 069	6.90	1.340	2.96	140	6.5		•	
ICM 070	7.00	1.010	3.59	140	7.0		•	
ICM 071	7.10	1.030	3.57	140	7.0		•	
ICM 072	7.20	1.050	3.55	140	7.0		•	
ICM 073	7.30	1.060	3.54	140	7.0		•	
ICM 074	7.40	1.080	3.52	140	7.0		•	
ICM 075	7.50	1.100	3.50	140	7.0		•	•
ICM 076	7.60	1.120	3.48	140	7.0		•	
ICM 077	7.70	1.140	3.46	140	7.0		•	
ICM 078	7.80	1.160	3.44	140	7.0		•	
ICM 079	7.90	1.170	3.43	140	7.0		•	
ICM 080	8.00	1.200	4.20	140	8.0		•	•
ICM 081	8.10	1.220	4.18	140	8.0		•	
ICM 082	8.20	1.240	4.16	140	8.0		•	
ICM 083	8.30	1.250	4.15	140	8.0		•	
ICM 084	8.40	1.270	4.13	140	8.0		•	
ICM 085	8.50	1.290	4.11	140	8.0		•	•
ICM 086	8.60	1.310	4.09	140	8.0		•	
ICM 087	8.70	1.330	4.07	140	8.0		•	•
ICM 088	8.80	1.350	4.05	140	8.0		•	
ICM 089	8.90	1.360	4.04	140	8.0		•	
ICM 090	9.00	1.360	4.44	140	9.0		•	•
ICM 091	9.10	1.380	4.42	140	9.0		•	•
ICM 092	9.20	1.400	4.40	140	9.0		•	
ICM 093	9.30	1.410	4.39	140	9.0		•	
ICM 094	9.40	1.430	4.37	140	9.0		•	•
ICM 095	9.50	1.450	4.35	140	9.0		•	•
ICM 096	9.60	1.470	4.33	140	9.0		•	
ICM 097	9.70	1.490	4.31	140	9.0		•	•
ICM 098	9.80	1.510	4.29	140	9.0		•	
ICM 099	9.90	1.520	4.28	140	9.0		•	•
ICM 100	10.00	1.500	4.70	140	10.0		•	•
ICM 101	10.10	1.520	4.68	140	10.0		•	
ICM 102	10.20	1.540	4.66	140	10.0		•	•
ICM 103	10.30	1.550	4.65	140	10.0		•	•
ICM 104	10.40	1.570	4.63	140	10.0		•	•
ICM 105	10.50	1.590	4.61	140	10.0		•	•
ICM 106	10.60	1.610	4.59	140	10.0		•	•

• The drill head features a T-land on the cutting edge

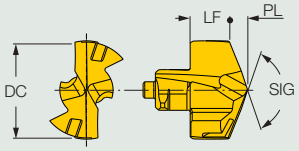
(1) SIG angle varies ±5°; depends on insert design optimization

(2) Seat size code

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

ICM
Exchangeable SUMO-CHAM Drilling Heads for Machining ISO M and ISO S Materials







Designation	Dimensions DC	PL	LF	SIG(1)	SSC(2)	Tough ↔ Hard IC908	IC907
ICM 107	10.70	1.630	4.57	140	10.0	•	•
ICM 108	10.80	1.650	4.55	140	10.0	•	
ICM 109	10.90	1.660	4.54	140	10.0	•	
ICM 110	11.00	1.660	4.94	140	11.0	•	•
ICM 111	11.10	1.680	4.92	140	11.0	•	•
ICM 112	11.20	1.700	4.90	140	11.0	•	•
ICM 113	11.30	1.710	4.89	140	11.0	•	
ICM 114	11.40	1.730	4.87	140	11.0	•	
ICM 115	11.50	1.750	4.85	140	11.0	•	•
ICM 116	11.60	1.770	4.83	140	11.0	•	
ICM 117	11.70	1.790	4.81	140	11.0	•	
ICM 118	11.80	1.810	4.79	140	11.0	•	•
ICM 119	11.90	1.820	4.78	140	11.0	•	•
ICM 120	12.00	1.810	5.19	140	12.0	•	•

• The drill head features a T-land on the cutting edge

(1) SIG angle varies ±5°; depends on insert design optimization

(2) Seat size code

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT



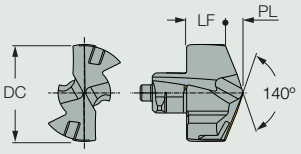
SUMOCHAM

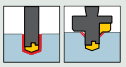
ICN

Exchangeable SUMO-CHAM Drilling Heads for Machining ISO N Materials

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT







Designation	Dimensions						IC08
	DC	PL	LF	SIG[1]	SSC[2]		
ICN 0476	4.76	0.710	2.84	140	4.0	SK DCN 4-4.99	●
ICN 051	5.10	0.750	2.95	140	5.0	SK DCN 5-5.99	●
ICN 054	5.40	0.730	2.97	140	5.0	SK DCN 5-5.99	●
ICN 0635	6.35	1.020	2.98	140	6.0		●
ICN 0794	7.94	1.180	3.42	140	7.0		●
ICN 0952	9.52	1.440	4.36	140	9.0		●
ICN 100	10.00	1.500	4.70	140	10.0		●
ICN 102	10.20	1.540	4.66	140	10.0		●
ICN 103	10.30	1.550	4.65	140	10.0		●
ICN 105	10.50	1.590	4.61	140	10.0		●
ICN 107	10.70	1.630	4.57	140	10.0		●
ICN 108	10.80	1.650	4.55	140	10.0		●
ICN 110	11.00	1.670	4.93	140	11.0		●
ICN 111	11.10	1.690	4.91	140	11.0		●
ICN 115	11.50	1.760	4.84	140	11.0		●
ICN 119	11.90	1.830	4.77	140	11.0		●
ICN 120	12.00	1.820	5.18	140	12.0		●

- The drill is manufactured with a sharp cutting edge and polished flutes

[1] SIG angle varies ±5°; depends on insert design optimization

[2] Seat size code



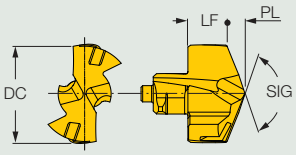
SUMOCHAM

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

ICP-2M

Exchangeable Double Margin SUMO-CHAM Drilling Heads, for Machining ISO P Materials with High Surface Finish Results







Designation	Dimensions					IC908
	DC	LF	PL	SIG[1]	SSC[2]	
ICP 060-2M	6.00	3.04	0.960	140	6.0	•
ICP 061-2M	6.10	3.02	0.980	140	6.0	•
ICP 062-2M	6.20	3.00	1.000	140	6.0	•
ICP 064-2M	6.40	2.97	1.030	140	6.0	•
ICP 065-2M	6.50	3.12	1.180	140	6.5	•
ICP 066-2M	6.60	3.10	1.200	140	6.5	•
ICP 067-2M	6.70	3.08	1.220	140	6.5	•
ICP 068-2M	6.80	3.07	1.230	140	6.5	•
ICP 069-2M	6.90	3.05	1.250	140	6.5	•
ICP 070-2M	7.00	3.59	1.010	140	7.0	•
ICP 071-2M	7.10	3.57	1.030	140	7.0	•
ICP 072-2M	7.20	3.55	1.050	140	7.0	•
ICP 073-2M	7.30	3.54	1.060	140	7.0	•
ICP 074-2M	7.40	3.52	1.080	140	7.0	•
ICP 075-2M	7.50	3.50	1.100	140	7.0	•
ICP 077-2M	7.70	3.46	1.140	140	7.0	•
ICP 078-2M	7.80	3.44	1.160	140	7.0	•
ICP 079-2M	7.90	3.43	1.170	140	7.0	•
ICP 080-2M	8.00	4.20	1.200	140	8.0	•
ICP 081-2M	8.10	4.18	1.220	140	8.0	•
ICP 082-2M	8.20	4.16	1.240	140	8.0	•
ICP 083-2M	8.30	4.15	1.250	140	8.0	•
ICP 084-2M	8.40	4.13	1.270	140	8.0	•
ICP 085-2M	8.50	4.11	1.290	140	8.0	•
ICP 086-2M	8.60	4.09	1.310	140	8.0	•
ICP 087-2M	8.70	4.07	1.330	140	8.0	•
ICP 088-2M	8.80	4.05	1.350	140	8.0	•
ICP 089-2M	8.90	4.04	1.360	140	8.0	•
ICP 090-2M	9.00	4.45	1.350	140	9.0	•
ICP 091-2M	9.10	4.43	1.370	140	9.0	•
ICP 092-2M	9.20	4.41	1.390	140	9.0	•
ICP 093-2M	9.30	4.40	1.400	140	9.0	•
ICP 094-2M	9.40	4.38	1.420	140	9.0	•
ICP 095-2M	9.50	4.36	1.440	140	9.0	•
ICP 096-2M	9.60	4.34	1.460	140	9.0	•
ICP 097-2M	9.70	4.32	1.480	140	9.0	•
ICP 098-2M	9.80	4.30	1.500	140	9.0	•
ICP 099-2M	9.90	4.29	1.510	140	9.0	•
ICP 100-2M	10.00	4.70	1.500	140	10.0	•
ICP 101-2M	10.10	4.68	1.520	140	10.0	•
ICP 102-2M	10.20	4.66	1.540	140	10.0	•
ICP 103-2M	10.30	4.65	1.550	140	10.0	•
ICP 104-2M	10.40	4.63	1.570	140	10.0	•
ICP 105-2M	10.50	4.61	1.590	140	10.0	•
ICP 106-2M	10.60	4.59	1.610	140	10.0	•
ICP 107-2M	10.70	4.57	1.630	140	10.0	•
ICP 108-2M	10.80	4.55	1.650	140	10.0	•
ICP 109-2M	10.90	4.54	1.660	140	10.0	•
ICP 110-2M	11.00	4.93	1.670	140	11.0	•
ICP 111-2M	11.10	4.91	1.690	140	11.0	•
ICP 112-2M	11.20	4.89	1.710	140	11.0	•
ICP 113-2M	11.30	4.88	1.720	140	11.0	•
ICP 114-2M	11.40	4.86	1.740	140	11.0	•
ICP 115-2M	11.50	4.84	1.760	140	11.0	•
ICP 116-2M	11.60	4.82	1.780	140	11.0	•
ICP 117-2M	11.70	4.80	1.800	140	11.0	•
ICP 118-2M	11.80	4.78	1.820	140	11.0	•
ICP 119-2M	11.90	4.77	1.830	140	11.0	•
ICP 120-2M	12.00	5.18	1.820	140	12.0	•

• Provides high surface finish of up to 1.6 Ra hole cylindricity and straightness of up to 0.05 mm

(1) SIG angle varies ±5°; depends on insert design optimization

(2) Seat size code

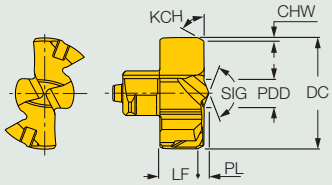
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

SUMOCHAM
FLAT HEAD

FCP

Exchangeable Flat Bottom SUMO-CHAM Drilling Heads, for Machining ISO P and ISO K Materials





Designation	Dimensions									IC908
	DC	PDD	LF	PL	CHW	KCH	SIG(1)	SSC(2)		
FCP 040-IQ	4.00	1.45	2.50	0.450	0.17	60.0	140	4.0	SK DCN 4-4.99	•
FCP 041-IQ	4.10	1.45	2.50	0.450	0.17	60.0	140	4.0	SK DCN 4-4.99	•
FCP 042-IQ	4.20	1.45	2.50	0.450	0.17	60.0	140	4.0	SK DCN 4-4.99	•
FCP 043-IQ	4.30	1.45	2.50	0.450	0.17	60.0	140	4.0	SK DCN 4-4.99	•
FCP 044-IQ	4.40	1.45	2.50	0.450	0.17	60.0	140	4.0	SK DCN 4-4.99	•
FCP 045-IQ	4.50	1.56	2.80	0.480	0.17	60.0	140	4.5	SK DCN 4-4.99	•
FCP 046-IQ	4.60	1.56	2.80	0.480	0.17	60.0	140	4.5	SK DCN 4-4.99	•
FCP 047-IQ	4.70	1.56	2.80	0.480	0.17	60.0	140	4.5	SK DCN 4-4.99	•
FCP 048-IQ	4.80	1.56	2.80	0.480	0.17	60.0	140	4.5	SK DCN 4-4.99	•
FCP 049-IQ	4.90	1.56	2.80	0.480	0.17	60.0	140	4.5	SK DCN 4-4.99	•
FCP 050-IQ	5.00	1.98	2.90	0.610	0.23	60.0	140	5.0	SK DCN 5-5.99	•
FCP 051-IQ	5.10	1.98	2.90	0.610	0.23	60.0	140	5.0	SK DCN 5-5.99	•
FCP 052-IQ	5.20	1.98	2.90	0.610	0.23	60.0	140	5.0	SK DCN 5-5.99	•
FCP 053-IQ	5.30	1.98	2.90	0.610	0.23	60.0	140	5.0	SK DCN 5-5.99	•
FCP 054-IQ	5.40	1.98	2.90	0.610	0.23	60.0	140	5.0	SK DCN 5-5.99	•
FCP 055-IQ	5.50	2.02	2.90	0.610	0.23	60.0	140	5.5	SK DCN 5-5.99	•
FCP 056-IQ	5.60	2.02	2.90	0.610	0.23	60.0	140	5.5	SK DCN 5-5.99	•
FCP 057-IQ	5.70	2.02	2.90	0.610	0.23	60.0	140	5.5	SK DCN 5-5.99	•
FCP 058-IQ	5.80	2.02	2.90	0.610	0.23	60.0	140	5.5	SK DCN 5-5.99	•
FCP 059-IQ	5.90	2.02	2.90	0.610	0.23	60.0	140	5.5	SK DCN 5-5.99	•
FCP 060	6.00	2.03	2.40	0.610	0.23	60.0	140	6.0		•
FCP 061	6.10	2.03	2.40	0.610	0.23	60.0	140	6.0		•
FCP 062	6.20	2.03	2.40	0.610	0.23	60.0	140	6.0		•
FCP 063	6.30	2.03	2.40	0.610	0.23	60.0	140	6.0		•
FCP 064	6.40	2.03	2.40	0.610	0.23	60.0	140	6.0		•
FCP 065	6.50	2.64	2.60	0.680	0.23	60.0	140	6.5		•
FCP 066	6.60	2.64	2.60	0.680	0.23	60.0	140	6.5		•
FCP 067	6.70	2.64	2.60	0.680	0.23	60.0	140	6.5		•
FCP 068	6.80	2.64	2.60	0.680	0.23	60.0	140	6.5		•
FCP 069	6.90	2.64	2.60	0.680	0.23	60.0	140	6.5		•
FCP 070	7.00	2.25	2.90	0.680	0.23	60.0	140	7.0		•
FCP 071	7.10	2.25	2.90	0.680	0.23	60.0	140	7.0		•
FCP 072	7.20	2.25	2.90	0.680	0.23	60.0	140	7.0		•
FCP 073	7.30	2.25	2.90	0.680	0.23	60.0	140	7.0		•
FCP 074	7.40	2.25	2.90	0.680	0.23	60.0	140	7.0		•
FCP 075	7.50	2.25	2.90	0.680	0.23	60.0	140	7.0		•
FCP 076	7.60	2.25	2.90	0.680	0.23	60.0	140	7.0		•
FCP 077	7.70	2.25	2.90	0.680	0.23	60.0	140	7.0		•
FCP 078	7.80	2.25	2.90	0.680	0.23	60.0	140	7.0		•
FCP 079	7.90	2.25	2.90	0.680	0.23	60.0	140	7.0		•
FCP 080	8.00	2.43	3.30	1.090	0.40	60.0	140	8.0		•
FCP 081	8.10	2.43	3.30	1.090	0.40	60.0	140	8.0		•
FCP 082	8.20	2.43	3.30	1.090	0.40	60.0	140	8.0		•
FCP 083	8.30	2.43	3.30	1.090	0.40	60.0	140	8.0		•
FCP 084	8.40	2.43	3.30	1.090	0.40	60.0	140	8.0		•
FCP 085	8.50	2.43	3.30	1.090	0.40	60.0	140	8.0		•
FCP 086	8.60	2.43	3.30	1.090	0.40	60.0	140	8.0		•
FCP 087	8.70	2.43	3.30	1.090	0.40	60.0	140	8.0		•
FCP 088	8.80	2.43	3.30	1.090	0.40	60.0	140	8.0		•
FCP 089	8.90	2.43	3.30	1.090	0.40	60.0	140	8.0		•
FCP 090	9.00	2.82	3.50	1.110	0.40	60.0	140	9.0		•
FCP 091	9.10	2.82	3.50	1.110	0.40	60.0	140	9.0		•
FCP 092	9.20	2.82	3.50	1.110	0.40	60.0	140	9.0		•
FCP 093	9.30	2.82	3.50	1.110	0.40	60.0	140	9.0		•
FCP 094	9.40	2.82	3.50	1.110	0.40	60.0	140	9.0		•
FCP 095	9.50	2.82	3.50	1.110	0.40	60.0	140	9.0		•
FCP 096	9.60	2.82	3.50	1.110	0.40	60.0	140	9.0		•
FCP 097	9.70	2.82	3.50	1.110	0.40	60.0	140	9.0		•

• For nearly flat bottom hole applications

(1) SIG angle varies ±5°; depends on insert design optimization

(2) Seat size code

Continued

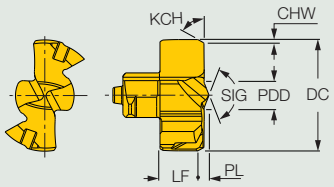
SUMOCHAM FLAT HEAD

FCP

Exchangeable Flat Bottom SUMO-CHAM Drilling Heads, for Machining ISO P and ISO K Materials

MAXVALUE MINIMUM COST MAXIMUM OUTPUT





Designation	Dimensions								IC908
	DC	PDD	LF	PL	CHW	KCH	SIG(1)	SSC(2)	
FCP 098	9.80	2.82	3.50	1.110	0.40	60.0	140	9.0	•
FCP 099	9.90	2.82	3.50	1.110	0.40	60.0	140	9.0	•
FCP 100	10.00	2.77	3.70	1.170	0.40	60.0	140	10.0	•
FCP 101	10.10	2.77	3.70	1.170	0.40	60.0	140	10.0	•
FCP 102	10.20	2.77	3.70	1.170	0.40	60.0	140	10.0	•
FCP 103	10.30	2.77	3.70	1.170	0.40	60.0	140	10.0	•
FCP 104	10.40	2.77	3.70	1.170	0.40	60.0	140	10.0	•
FCP 105	10.50	2.77	3.70	1.170	0.40	60.0	140	10.0	•
FCP 106	10.60	2.77	3.70	1.170	0.40	60.0	140	10.0	•
FCP 107	10.70	2.77	3.70	1.170	0.40	60.0	140	10.0	•
FCP 108	10.80	2.77	3.70	1.170	0.40	60.0	140	10.0	•
FCP 109	10.90	2.77	3.70	1.170	0.40	60.0	140	10.0	•
FCP 110	11.00	2.88	3.80	1.250	0.40	60.0	140	11.0	•
FCP 111	11.10	2.88	3.80	1.250	0.40	60.0	140	11.0	•
FCP 112	11.20	2.88	3.80	1.250	0.40	60.0	140	11.0	•
FCP 113	11.30	2.88	3.80	1.250	0.40	60.0	140	11.0	•
FCP 114	11.40	2.88	3.80	1.250	0.40	60.0	140	11.0	•
FCP 115	11.50	2.88	3.80	1.250	0.40	60.0	140	11.0	•
FCP 116	11.60	2.88	3.80	1.250	0.40	60.0	140	11.0	•
FCP 117	11.70	2.88	3.80	1.250	0.40	60.0	140	11.0	•
FCP 118	11.80	2.88	3.80	1.250	0.40	60.0	140	11.0	•
FCP 119	11.90	2.88	3.80	1.250	0.40	60.0	140	11.0	•
FCP 120	12.00	3.10	4.10	1.260	0.40	60.0	140	12.0	•

• For nearly flat bottom hole applications

(1) SIG angle varies ±5°; depends on insert design optimization

(2) Seat size code



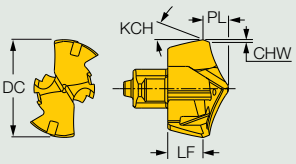
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

SUMOCHAMIQ
CHAMDRILL LINE

HCP-IQ

Exchangeable Self-Centering SUMO-CHAM Drilling Heads, for Machining ISO P and ISO K Materials







Designation	Dimensions DC	LF	PL	CHW	KCH	SSC(1)		IC908
HCP 040-IQ	4.00	2.40	1.160	0.20	30.0	4.0	SK DCN 4-4.99	•
HCP 041-IQ	4.10	2.40	1.160	0.20	30.0	4.0	SK DCN 4-4.99	•
HCP 042-IQ	4.20	2.40	1.160	0.20	30.0	4.0	SK DCN 4-4.99	•
HCP 043-IQ	4.30	2.40	1.160	0.20	30.0	4.0	SK DCN 4-4.99	•
HCP 044-IQ	4.40	2.40	1.160	0.20	30.0	4.0	SK DCN 4-4.99	•
HCP 045-IQ	4.50	2.64	1.190	0.20	30.0	4.5	SK DCN 4-4.99	•
HCP 046-IQ	4.60	2.64	1.190	0.20	30.0	4.5	SK DCN 4-4.99	•
HCP 047-IQ	4.70	2.64	1.190	0.20	30.0	4.5	SK DCN 4-4.99	•
HCP 048-IQ	4.80	2.64	1.190	0.20	30.0	4.5	SK DCN 4-4.99	•
HCP 049-IQ	4.90	2.64	1.190	0.20	30.0	4.5	SK DCN 4-4.99	•
HCP 050-IQ	5.00	2.79	1.440	0.25	30.0	5.0	SK DCN 5-5.99	•
HCP 051-IQ	5.10	2.79	1.440	0.25	30.0	5.0	SK DCN 5-5.99	•
HCP 052-IQ	5.20	2.79	1.440	0.25	30.0	5.0	SK DCN 5-5.99	•
HCP 053-IQ	5.30	2.79	1.440	0.25	30.0	5.0	SK DCN 5-5.99	•
HCP 054-IQ	5.40	2.79	1.440	0.25	30.0	5.0	SK DCN 5-5.99	•
HCP 055-IQ	5.50	2.75	1.630	0.25	30.0	5.5	SK DCN 5-5.99	•
HCP 056-IQ	5.60	2.75	1.630	0.25	30.0	5.5	SK DCN 5-5.99	•
HCP 057-IQ	5.70	2.75	1.630	0.25	30.0	5.5	SK DCN 5-5.99	•
HCP 058-IQ	5.80	2.75	1.630	0.25	30.0	5.5	SK DCN 5-5.99	•
HCP 059-IQ	5.90	2.75	1.630	0.25	30.0	5.5	SK DCN 5-5.99	•
HCP 060-IQ	6.00	2.35	1.650	0.30	30.0	6.0		•
HCP 061-IQ	6.10	2.35	1.650	0.30	30.0	6.0		•
HCP 062-IQ	6.20	2.35	1.650	0.30	30.0	6.0		•
HCP 063-IQ	6.30	2.35	1.650	0.30	30.0	6.0		•
HCP 064-IQ	6.40	2.35	1.650	0.30	30.0	6.0		•
HCP 065-IQ	6.50	2.63	1.670	0.30	30.0	6.5		•
HCP 066-IQ	6.60	2.63	1.670	0.30	30.0	6.5		•
HCP 067-IQ	6.70	2.63	1.670	0.30	30.0	6.5		•
HCP 068-IQ	6.80	2.63	1.670	0.30	30.0	6.5		•
HCP 069-IQ	6.90	2.63	1.670	0.30	30.0	6.5		•
HCP 070-IQ	7.00	2.83	1.770	0.35	30.0	7.0		•
HCP 071-IQ	7.10	2.83	1.770	0.35	30.0	7.0		•
HCP 072-IQ	7.20	2.83	1.770	0.35	30.0	7.0		•
HCP 073-IQ	7.30	2.83	1.770	0.35	30.0	7.0		•
HCP 074-IQ	7.40	2.83	1.770	0.35	30.0	7.0		•
HCP 075-IQ	7.50	2.83	1.770	0.35	30.0	7.0		•
HCP 076-IQ	7.60	2.83	1.770	0.35	30.0	7.0		•
HCP 077-IQ	7.70	2.83	1.770	0.35	30.0	7.0		•
HCP 078-IQ	7.80	2.83	1.770	0.35	30.0	7.0		•
HCP 079-IQ	7.90	2.83	1.770	0.35	30.0	7.0		•
HCP 080-IQ	8.00	3.24	2.160	0.40	30.0	8.0		•
HCP 081-IQ	8.10	3.24	2.160	0.40	30.0	8.0		•
HCP 082-IQ	8.20	3.24	2.160	0.40	30.0	8.0		•
HCP 083-IQ	8.30	3.24	2.160	0.40	30.0	8.0		•
HCP 084-IQ	8.40	3.24	2.160	0.40	30.0	8.0		•
HCP 085-IQ	8.50	3.24	2.160	0.40	30.0	8.0		•
HCP 086-IQ	8.60	3.24	2.160	0.40	30.0	8.0		•
HCP 087-IQ	8.70	3.24	2.160	0.40	30.0	8.0		•
HCP 088-IQ	8.80	3.24	2.160	0.40	30.0	8.0		•
HCP 089-IQ	8.90	3.24	2.160	0.40	30.0	8.0		•
HCP 090-IQ	9.00	3.55	2.250	0.45	30.0	9.0		•
HCP 091-IQ	9.10	3.55	2.250	0.45	30.0	9.0		•
HCP 092-IQ	9.20	3.55	2.250	0.45	30.0	9.0		•
HCP 093-IQ	9.30	3.55	2.250	0.45	30.0	9.0		•
HCP 094-IQ	9.40	3.55	2.250	0.45	30.0	9.0		•
HCP 095-IQ	9.50	3.55	2.250	0.45	30.0	9.0		•
HCP 096-IQ	9.60	3.55	2.250	0.45	30.0	9.0		•
HCP 097-IQ	9.70	3.55	2.250	0.45	30.0	9.0		•
HCP 098-IQ	9.80	3.55	2.250	0.45	30.0	9.0		•
HCP 099-IQ	9.90	3.55	2.250	0.45	30.0	9.0		•
HCP 100-IQ	10.00	3.48	2.720	0.49	30.0	10.0		•

• Advance self-centering and high surface finish

(1) Seat size code

Continued

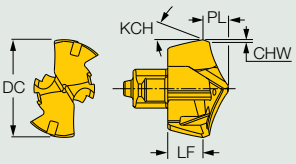
SUMOCHAMIQ CHAMDRILL LINE

HCP-IQ

Exchangeable Self-Centering SUMO-CHAM Drilling Heads, for Machining ISO P and ISO K Materials

MAXVALUE MINIMUM COST MAXIMUM OUTPUT





Designation	Dimensions DC	LF	PL	CHW	KCH	SSC(1)	IC908
HCP 101-IQ	10.10	3.48	2.720	0.49	30.0	10.0	•
HCP 102-IQ	10.20	3.48	2.720	0.49	30.0	10.0	•
HCP 103-IQ	10.30	3.48	2.720	0.49	30.0	10.0	•
HCP 104-IQ	10.40	3.48	2.720	0.49	30.0	10.0	•
HCP 105-IQ	10.50	3.48	2.720	0.49	30.0	10.0	•
HCP 106-IQ	10.60	3.48	2.720	0.49	30.0	10.0	•
HCP 107-IQ	10.70	3.48	2.720	0.49	30.0	10.0	•
HCP 108-IQ	10.80	3.48	2.720	0.49	30.0	10.0	•
HCP 109-IQ	10.90	3.48	2.720	0.49	30.0	10.0	•
HCP 110-IQ	11.00	3.85	2.750	0.49	30.0	11.0	•
HCP 111-IQ	11.10	3.85	2.750	0.49	30.0	11.0	•
HCP 112-IQ	11.20	3.85	2.750	0.49	30.0	11.0	•
HCP 113-IQ	11.30	3.85	2.750	0.49	30.0	11.0	•
HCP 114-IQ	11.40	3.85	2.750	0.49	30.0	11.0	•
HCP 115-IQ	11.50	3.85	2.750	0.49	30.0	11.0	•
HCP 116-IQ	11.60	3.85	2.750	0.49	30.0	11.0	•
HCP 117-IQ	11.70	3.85	2.750	0.49	30.0	11.0	•
HCP 118-IQ	11.80	3.85	2.750	0.49	30.0	11.0	•
HCP 119-IQ	11.90	3.85	2.750	0.49	30.0	11.0	•
HCP 120-IQ	12.00	3.84	3.160	0.51	30.0	12.0	•

• Advance self-centering and high surface finish

(1) Seat size code

MAXVALUE MINIMUM COST MAXIMUM OUTPUT



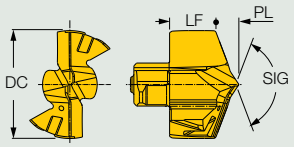
MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

SUMOCHAM

QCP-2M

Exchangeable Double Margin, Self-Centering SUMO-CHAM Drilling Heads, for ISO P Materials with High Surface Finish result







Designation	Dimensions					IC908
	DC	LF	PL	SIG(1)	SSC(2)	
QCP 060-2M	6.00	2.79	1.210	136	6.0	•
QCP 061-2M	6.10	2.77	1.230	136	6.0	•
QCP 062-2M	6.20	2.75	1.250	136	6.0	•
QCP 063-2M	6.30	2.73	1.270	136	6.0	•
QCP 0635-2M	6.35	2.72	1.280	136	6.0	•
QCP 064-2M	6.40	2.71	1.290	136	6.0	•
QCP 065-2M	6.50	2.99	1.310	136	6.5	•
QCP 066-2M	6.60	2.97	1.330	136	6.5	•
QCP 067-2M	6.70	2.95	1.350	136	6.5	•
QCP 068-2M	6.80	2.93	1.370	136	6.5	•
QCP 069-2M	6.90	2.91	1.390	136	6.5	•
QCP 070-2M	7.00	3.25	1.350	136	7.0	•
QCP 071-2M	7.10	3.23	1.370	136	7.0	•
QCP 072-2M	7.20	3.21	1.390	136	7.0	•
QCP 073-2M	7.30	3.19	1.410	136	7.0	•
QCP 074-2M	7.40	3.17	1.430	136	7.0	•
QCP 075-2M	7.50	3.15	1.450	136	7.0	•
QCP 076-2M	7.60	3.13	1.470	136	7.0	•
QCP 077-2M	7.70	3.11	1.490	136	7.0	•
QCP 078-2M	7.80	3.09	1.510	136	7.0	•
QCP 079-2M	7.90	3.07	1.530	136	7.0	•
QCP 080-2M	8.00	3.78	1.620	136	8.0	•
QCP 081-2M	8.10	3.76	1.640	136	8.0	•
QCP 082-2M	8.20	3.74	1.660	136	8.0	•
QCP 083-2M	8.30	3.72	1.680	136	8.0	•
QCP 084-2M	8.40	3.70	1.700	136	8.0	•
QCP 085-2M	8.50	3.68	1.720	136	8.0	•
QCP 086-2M	8.60	3.66	1.740	136	8.0	•
QCP 087-2M	8.70	3.64	1.760	136	8.0	•
QCP 088-2M	8.80	3.62	1.780	136	8.0	•
QCP 090-2M	9.00	3.89	1.910	136	9.0	•
QCP 091-2M	9.10	3.87	1.930	136	9.0	•
QCP 092-2M	9.20	3.85	1.950	136	9.0	•
QCP 093-2M	9.30	3.83	1.970	136	9.0	•
QCP 094-2M	9.40	3.81	1.990	136	9.0	•
QCP 095-2M	9.50	3.79	2.010	136	9.0	•
QCP 096-2M	9.60	3.77	2.030	136	9.0	•
QCP 097-2M	9.70	3.75	2.050	136	9.0	•
QCP 098-2M	9.80	3.73	2.070	136	9.0	•
QCP 099-2M	9.90	3.71	2.090	136	9.0	•
QCP 100-2M	10.00	4.70	2.090	136	10.0	•
QCP 101-2M	10.10	4.68	2.110	136	10.0	•
QCP 102-2M	10.20	4.66	2.130	136	10.0	•
QCP 103-2M	10.30	4.64	2.150	136	10.0	•
QCP 104-2M	10.40	4.62	2.170	136	10.0	•
QCP 105-2M	10.50	4.60	2.190	136	10.0	•
QCP 106-2M	10.60	4.58	2.210	136	10.0	•
QCP 107-2M	10.70	4.56	2.230	136	10.0	•
QCP 108-2M	10.80	4.54	2.250	136	10.0	•
QCP 109-2M	10.90	4.52	2.270	136	10.0	•
QCP 110-2M	11.00	4.93	2.320	136	11.0	•
QCP 111-2M	11.10	4.91	2.340	136	11.0	•
QCP 112-2M	11.20	4.89	2.360	136	11.0	•
QCP 113-2M	11.30	4.87	2.380	136	11.0	•
QCP 114-2M	11.40	4.85	2.400	136	11.0	•
QCP 115-2M	11.50	4.83	2.420	136	11.0	•
QCP 116-2M	11.60	4.81	2.440	136	11.0	•
QCP 117-2M	11.70	4.79	2.460	136	11.0	•
QCP 118-2M	11.80	4.77	2.480	136	11.0	•
QCP 119-2M	11.90	4.75	2.500	136	11.0	•
QCP 120-2M	12.00	5.18	2.450	136	12.0	•

• Provides high surface finish of up to 1.6 Ra hole cylindricity and straightness of up to 0.05 mm

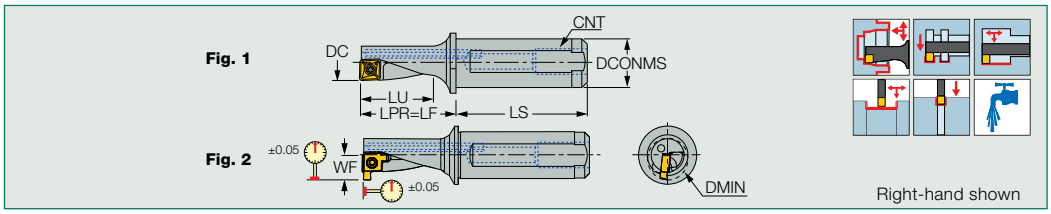
(1) SIG angle varies ±5°; depends on insert design optimization

(2) Seat size code

Multifunction Tools

DRG-MF

MULTI-FUNCTION Drilling, Boring, Facing, External Turning and Internal Grooving Tools



Designation	DC	DMIN	WF	LU	LPR	LS	DCONMS	CNT	Insert	Fig.		
DR-MF-08R/L-2.25D-12A-04	8.00	8.00	-	18.0	22.5	42.0	12.00	G 1/16	XCMT 04...	1	SR 18034/HG-P	IP-6/5
DRG-MF-10R/L-2.25D-12A-05	10.00	12.00	7.10	22.5	27.5	42.0	12.00	G 1/16	XCMT 05...	2	SR 20038/HG-P	IP-6/5
DRG-MF-12R/L-2.25D-16A-06	12.00	14.50	8.50	27.0	33.0	45.0	16.00	G 1/8	XCMT 06...	2	SR 22052/HG-P	IP-7/5
DRG-MF-14R/L-2.25D-16A-07	14.00	16.50	9.50	31.5	38.5	45.0	16.00	G 1/8	XCMT 07...	2	SR 25064/HG-P	IP-8/5
DRG-MF-16R/L-2.25D-20A-08	16.00	19.00	11.10	36.0	44.0	50.0	20.00	G 1/8	XCMT 08...	2	SR 30070/HG-P	IP-9/151
DRG-MF-20R/L-2.25D-25A-10	20.00	23.50	13.20	45.0	55.0	56.0	25.00	G 1/8	XCMT 10...	2	SR 35088I/HG-P	IP-10/151
DRG-MF-25R/L-2.25D-32A-13	25.00	29.00	16.50	56.5	69.0	61.0	32.00	G 1/8	XCMT 13...	2	SR 45A100I/HG	IP-20/51
DRG-MF-32R/L-2.25D-40A-17	32.00	36.50	20.50	72.0	86.0	74.0	40.00	G 1/8	XCMT 17...	2	SR 45A100I/HG	IP-20/51

- In non-rotating applications, hole diameter can be adjusted within the specified range by shifting drill's center line along machine's X-axis
- The tools feature internal coolant holes

MAXVALUE
MINIMUM COST MAXIMUM OUTPUT

Multifunction Tools

XCMT-MF

Inserts for DR-MF MULTI-FUNCTION Tools with Two Cutting Edges for Hard Materials and Interrupted Cut



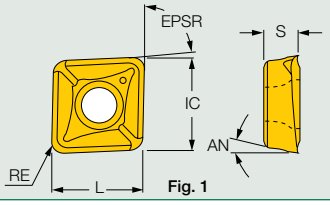


Fig. 1

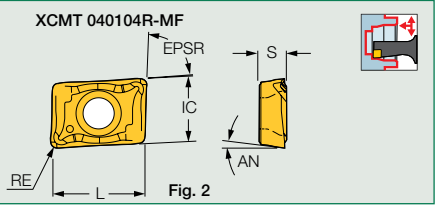


Fig. 2

Designation	Dimensions IC	L	S	RE	AN	EPSR	Fig.	IC908
XCMT 040104R/L-MF	4.40	6.37	1.70	0.40	7.0	83.5	2	●
XCMT 050204-MF	5.60	5.60	2.10	0.40	7.0	83.5	1	●
XCMT 060204-MF	6.40	6.40	2.38	0.40	7.0	83.5	1	●
XCMT 070304-MF	7.50	7.50	3.18	0.40	7.0	83.5	1	●
XCMT 080304-MF	8.44	8.44	3.18	0.40	7.0	83.5	1	●
XCMT 10T304-MF	10.50	10.50	3.97	0.40	7.0	83.5	1	●
XCMT 10T308-MF	10.50	10.50	3.97	0.80	7.0	83.5	1	●
XCMT 130404-MF	13.40	13.40	4.76	0.40	7.0	83.5	1	●
XCMT 130408-MF	13.40	13.40	4.76	0.80	7.0	83.5	1	●
XCMT 170508-MF	17.40	17.40	5.56	0.80	7.0	83.5	1	●

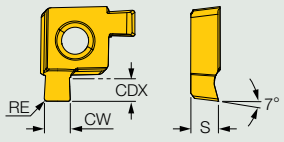
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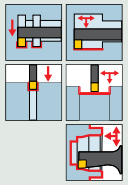
Multifunction Tools

XCMT-MG

Two Cutting Edged Internal Grooving Inserts for DR-MF MULTI-FUNCTION Tools

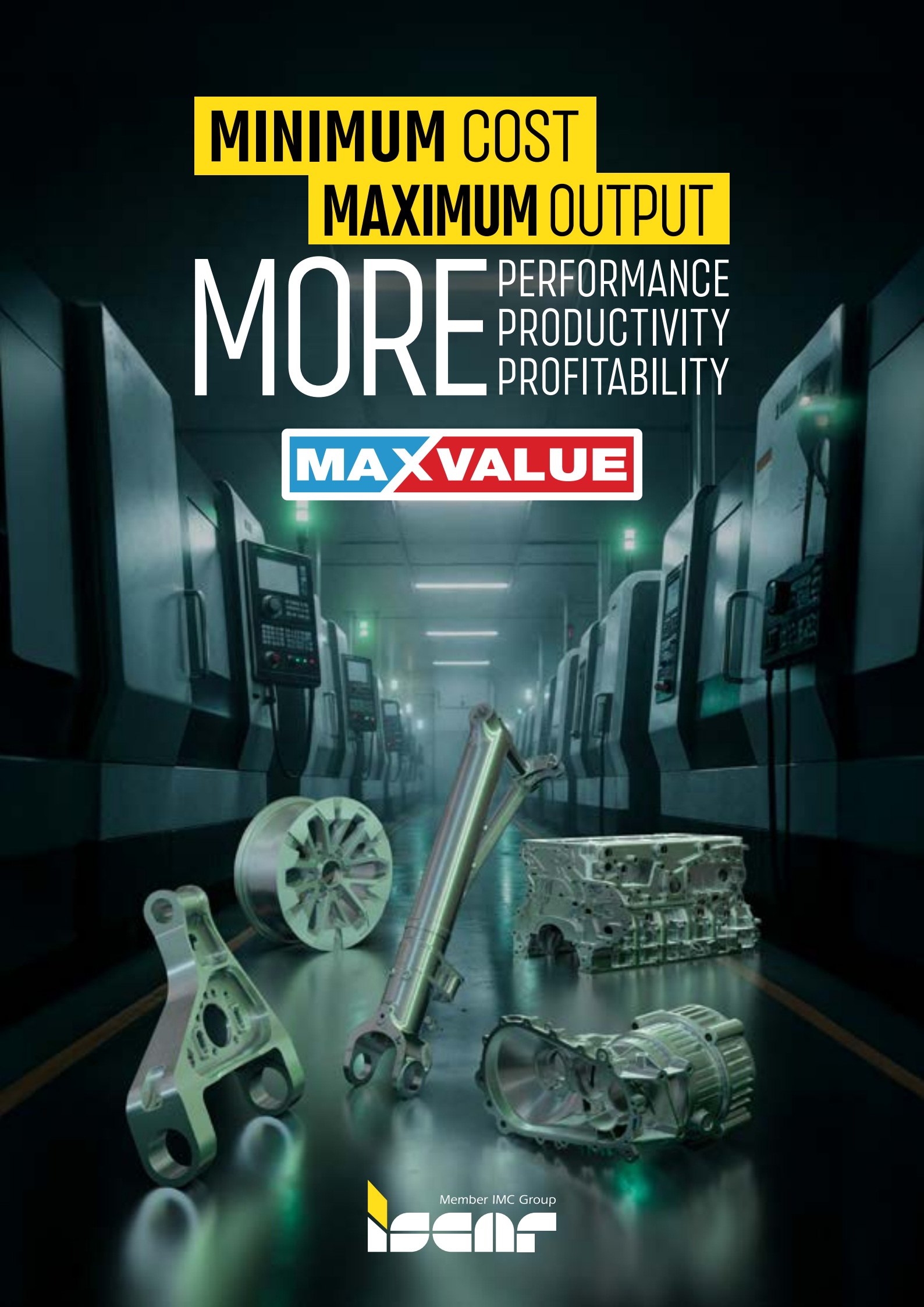






Designation	Dimensions CW	CDX	CWTOL[1]	RE	S	IC808G	Recommended Machining Data f turn (mm/rev)	f groove (mm/rev)
XCMT 05R-201802-MG	2.00	1.80	0.020	0.20	2.28	●	0.050-0.100	0.04-0.07
XCMT 06R-202002-MG	2.00	2.00	0.020	0.20	2.65	●	0.050-0.100	0.04-0.07
XCMT 07R-252002-MG	2.50	2.00	0.020	0.20	3.41	●	0.070-0.120	0.05-0.10
XCMT 08R-252502-MG	2.50	2.50	0.020	0.20	3.50	●	0.070-0.120	0.05-0.10
XCMT 10R-303003-MG	3.00	3.00	0.020	0.30	4.34	●	0.140-0.180	0.06-0.12
XCMT 13R-353503-MG	3.50	3.50	0.020	0.30	5.25	●	0.140-0.200	0.07-0.14
XCMT 17R-404004-MG	4.00	4.00	0.020	0.40	6.00	●	0.150-0.210	0.08-0.15

[1] Cutting width tolerance (+/-)


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