



DAMESA

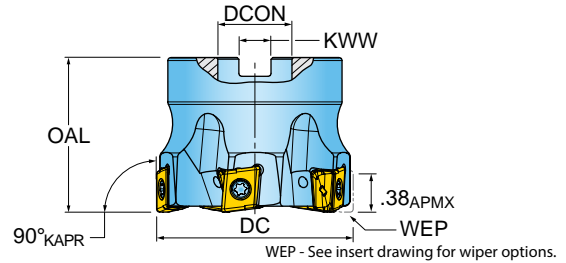
TOOLS DE MEXICO



SPEED UP
HIGH SPEED & FEED

MAXSPEED™ 11 SERIES EJ5C, EJ6C

90° FACE MILL (11MM INSERT)



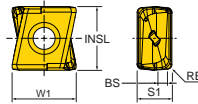
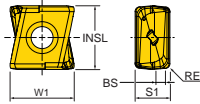
Part Number	DC Cutting Dia.	OAL Overall Length	ZEFF Effective Teeth	DCON Bore Dia.	KWW Keyway	RMPX Ramp Angle Max.
EJ5C-01R01	1.500	1.570	5	0.500	0.250	1.08
EJ6C-01R01	1.500	1.570	4	0.500	0.250	1.08
EJ5C-02R01	2.000	1.570	6	0.750	0.312	0.76
EJ6C-02R01	2.000	1.570	5	0.750	0.312	0.76
EJ5C-02R02	2.500	1.570	7	0.750	0.312	0.58
EJ6C-02R02	2.500	1.570	6	0.750	0.312	0.58
EJ5C-03R01	3.000	2.375	9	1.000	0.375	0.47
EJ6C-03R01	3.000	2.375	7	1.000	0.375	0.47
EJ5C-04R01	4.000	2.375	13	1.500	0.625	0.34
EJ6C-04R01	4.000	2.375	9	1.500	0.625	0.34

MAXSPEED™ 11 INSERTS



CGM313R00_-ML

CGM313R00_-M



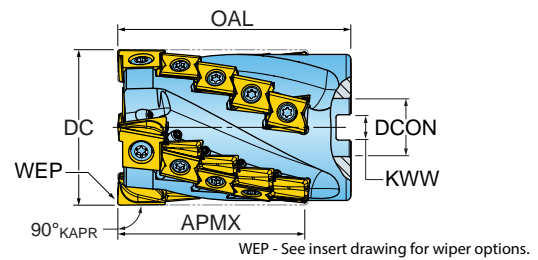
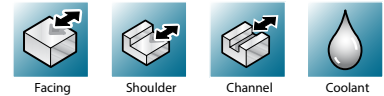
Part Number	Application	RE Corner Radius	BS Wiper Length	INSL Insert Length	W1 Insert Width	S1 Thickness	Grade	IN4015	IN2515	IN4005	IN2505	IN4030	IN2530	IN15K
CGM313R001-M	General Purpose	0.031	0.093	0.433	0.436	0.236		•	•	•	•	•	•	
CGM313R001-ML	General Purpose	0.031	0.093	0.433	0.436	0.236		•	•	•	•	•	•	
CGM313R001-MLP	Grd/Pol for Aluminum	0.031	0.093	0.433	0.436	0.236								•
CGM313R002-M	General Purpose	0.062	0.062	0.433	0.436	0.236		•	•	•	•	•	•	
CGM313R002-ML	General Purpose	0.062	0.062	0.433	0.436	0.236		•	•	•	•	•	•	
CGX313R001-M	Utility	0.031	0.093	0.433	0.436	0.236		•	•	•	•	•	•	
CGX312R002-M	Utility	0.062	0.062	0.433	0.436	0.236		•	•	•	•	•	•	

END MILLS & SHELL MILLS WITH INTERLOCKING INSERTS FOR SMOOTH AND RELIABLE OPERATION

- Overlapping “V-Notch” inserts that allow for smooth chip formation at high feed-rates
- The patented end-station fully supports the insert for reliable operation and unobstructed chip evacuation
- Tangentially mounted inserts with dovetailed seating for greater cutter reliability and insert stability
- End-station inserts with corner radii from .031” to .250” and that fit the same cutter body, no cutter modifications needed
- High axial shear for smooth chip formation in both keen and landed insert geometries

NUMAXILOCK™ SERIES 2XJ3J

90° SHELL MILL



Part Number	DC Cutting Dia.	APMX Depth of Cut Max.	OAL Overall Length	ZEFF Effective Teeth	ZFP Eff. Teeth Periphery	ZNF Face Insert Count	ZNP Peripheral Insert Count	NOF Flute Count	DCON Bore Dia.	KWW Keyway
2XJ3J-20023D1R01	2.000	1.512	2.35	4	4	4	8	4	0.750	0.312
2XJ3J-20027D1R01	2.000	1.971	2.75	4	4	4	12	4	0.750	0.312
2XJ3J-20027D1R02	2.000	1.512	2.75	3	3	3	6	3	0.750	0.312
2XJ3J-20030D1R01	2.000	2.430	3.00	4	4	4	16	4	0.750	0.312
2XJ3J-20035D1R01	2.000	2.889	3.50	4	4	4	20	4	0.750	0.312
2XJ3J-25035D3R02	2.500	2.886	3.50	4	4	4	20	4	1.000	0.375
2XJ3J-25030D3R01	2.500	2.431	3.00	5	5	5	20	5	1.000	0.375
2XJ3J-25035D3R01	2.500	2.886	3.50	5	5	5	25	5	1.000	0.375
2XJ3J-25035D3R02	2.500	2.886	3.50	4	4	4	20	4	1.000	0.375
2XJ3J-25040D3R01	2.500	3.348	4.00	5	5	5	30	5	1.000	0.375
2XJ3J-25045D3R01	2.500	3.806	4.50	5	5	5	35	5	1.000	0.375
2XJ3J-30037D4R01	3.000	2.890	3.75	5	5	5	25	5	1.250	0.500
2XJ3J-30037D4R02	3.000	2.890	3.75	6	6	6	30	6	1.250	0.500
2XJ3J-30042D4R01	3.000	3.348	4.25	5	5	5	30	5	1.250	0.500
2XJ3J-30050D4R01	3.000	3.807	5.00	5	5	5	35	5	1.250	0.500
2XJ3J-30050D4R02	3.000	3.807	5.00	6	6	6	42	6	1.250	0.500

* End station insert screw tightening torque: 40-45 in*lb. Side station insert screw tightening torque: 30-35 in*lb.

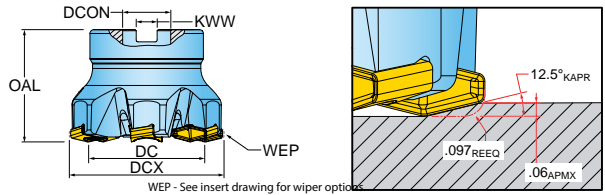
** Total number of inserts = ZNF + ZNP.

HI-FEED FACEMILL FAMILY WITH STRONG TANGENTIAL INSERTS AND RELIABLE DOVETAILED INSERT SEATING

- Unique diamond shaped inserts provide the highest ramping feed-rates at the steepest ramping angles
- Thick tangential inserts give maximum reinforcement to the cutting edge and cutter longevity
- Large insert seating areas are dovetailed to stabilize and support the insert under the most aggressive conditions
- Inserts offered in both pressed and ground profiles for economical performance across all material types

NUMAX^{HF}™ SERIES 8G5A, 8G6A

HIGH FEED FACE MILL



Part Number	DCX Cutting Dia. Max.	DC Cutting Dia.	OAL Overall Length	ZEFF Effective Teeth	REEQ Program Radius Equivalent	KAPR Cutting Edge Angle	DCON Bore Dia.	KWW Keyway	RMPX Ramp Angle Max.
8G5A-02R01	2.000	1.408	1.750	5	0.097	12.7	0.750	0.31	3.00
8G6A-02R01	2.000	1.408	1.750	4	0.097	12.7	0.750	0.31	3.00
8G6A-02R03	2.500	1.901	1.750	5	0.097	12.6	0.750	0.31	2.10
8G6A-02R02	2.500	1.902	1.750	5	0.097	12.6	1.000	0.38	2.10
8G5A-03R01	3.000	2.399	1.750	7	0.097	12.7	1.000	0.38	1.60
8G5A-03R02	3.000	2.399	1.750	7	0.097	12.5	1.250	0.50	1.60
8G5A-04R01	4.000	3.398	2.500	9	0.097	12.5	1.500	0.63	1.10
8G6A-04R01	4.000	3.398	2.500	7	0.097	12.5	1.500	0.63	1.10

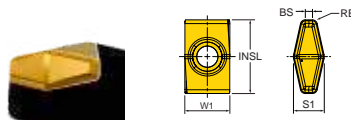
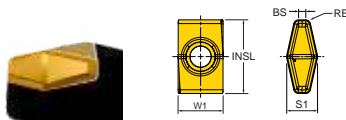
Insert screw tightening torque: 30-35 in*lb.

NUMAX^{HF}™ INSERTS



LGX324R001-M

LGM324R001-ML



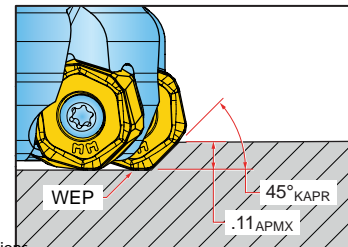
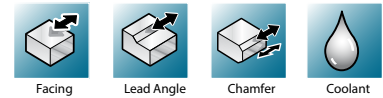
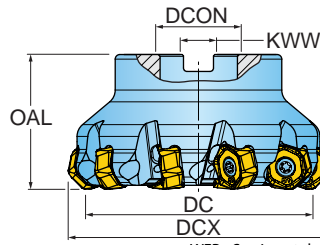
Part Number	Application	RE Corner Radius	BS Wiper Length	INSL Insert Length	W1 Insert Width	S1 Thickness	NOI Number of Indexes	IH Insert Hand	Grade IN4005	IN2505	IN4030	IN2530	IN4035	IN2535
LGX324R001-M	Hi-Feed, Heavy-Duty	0.040	0.060	0.610	0.373	0.256	4	Right	•	•	•	•		
LGM324R001-ML	Hi-Feed, Heavy-Duty Keen Edg	0.040	0.060	0.610	0.373	0.256	4	Right	•	•	•	•	•	•

ROBUST 45° FACE MILL WITH 12-EDGE ECONOMY

- Reinforced cutting edge boasts high feed rate potential
- High radial pocket incline promotes utmost chip evacuation and fine pitch cutter design for maximized productivity
- Helical cutting edges promote smooth machining
- Unequally spaced insert placement aids to diffuse vibration
- Integrated wiper flats produce 32-63 Ra surface finishes
- Ideal for steels and iron!

DIPOSHEXA™ 06 SERIES HN5D, HN6D

45° FACE MILL (6MM INSERT)



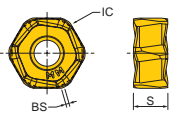
WEP - See insert drawing for wiper options.

Part Number	DC Cutting Dia.	DCX Cutting Diameter Max.	OAL Overall Length	ZEFF Eff. Teeth	DCON Shank Dia.	KWW Keyway	CSP Coolant
HN6D-15R01	1.500	1.88	1.750	4	0.500	0.250	Yes
HN5D-20R01	2.000	2.38	1.750	6	0.750	0.312	Yes
HN6D-20R01	2.000	2.38	1.750	4	0.750	0.312	Yes
HN5D-25R01	2.500	2.89	1.750	7	1.000	0.375	Yes
HN6D-25R01	2.500	2.89	1.750	5	1.000	0.375	Yes
HN5D-30R01	3.000	3.39	1.750	10	1.000	0.375	Yes
HN6D-30R01	3.000	3.39	1.750	6	1.000	0.375	Yes
HN5D-40R01	4.000	4.39	2.375	12	1.500	0.625	Yes
HN6D-40R01	4.000	4.39	2.375	7	1.500	0.625	Yes
HN5D-50R01	5.000	5.39	2.375	16	1.500	0.625	Yes
HN6D-50R01	5.000	5.39	2.375	10	1.500	0.625	Yes
HN5D-60R01	6.000	6.39	2.375	20	1.500	0.625	No
HN6D-60R01	6.000	6.39	2.375	12	1.500	0.625	No

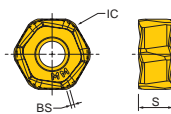
DIPOSHEXA™ 06 INSERTS



HNGU06_M



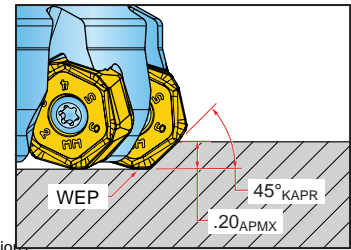
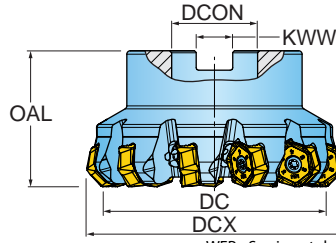
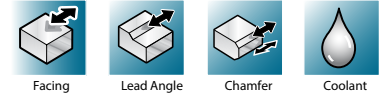
HNGU06_MM



Part Number	Application	BS Wiper Length	IC Inscribed Circle Dia.	S Thickness	NOI Number of Indexes	IH Insert Hand	Grade	IN2505	IN2510	IN6537
HNGU0605ANTR-M	Medium Roughing	0.023	0.551	0.264	12	Right		•		•
HNGU0605ANTR-MM	Medium, Pos. Rake Angle	0.047	0.551	0.264	12	Right		•	•	

DIPOSHEXA™ 10 SERIES HN5G, HN6G

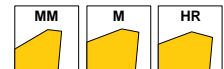
45° FACE MILL (10MM INSERT)



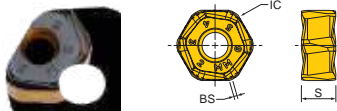
WEP - See insert drawing for wiper options.

Part Number	DC Cutting Dia.	DCX Cutting Diameter Max.	OAL Overall Length	ZEFF Eff. Teeth	DCON Shank Dia.	KWW Keyway	DBC Bolt Circle	CSP Coolant
HN5G-25R01	2.500	3.03	1.750	7	1.000	0.375	-	Yes
HN6G-25R01	2.500	3.03	1.750	5	1.000	0.375	-	Yes
HN5G-30R01	3.000	3.53	1.750	9	1.000	0.375	-	Yes
HN6G-30R01	3.000	3.53	1.750	6	1.000	0.375	-	Yes
HN5G-40R01	4.000	4.53	2.375	11	1.500	0.625	-	Yes
HN6G-40R01	4.000	4.53	2.375	7	1.500	0.625	-	Yes
HN5G-50R01	5.000	5.52	2.375	14	1.500	0.625	-	Yes
HN6G-50R01	5.000	5.52	2.375	8	1.500	0.625	-	Yes
HN5G-60R01	6.000	6.52	2.375	16	1.500	0.625	-	No
HN6G-60R01	6.000	6.52	2.375	10	1.500	0.625	-	No
HN5G-80R01	8.000	8.52	2.375	21	2.500	1.000	4.00"	No
HN6G-80R01	8.000	8.52	2.375	14	2.500	1.000	4.00"	No
HN5G-10R01	10.000	10.53	2.375	26	2.500	1.000	4.00"	No
HN6G-10R01	10.000	10.53	2.375	16	2.500	1.000	4.00"	No

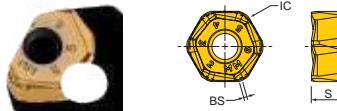
DIPOSHEXA™ 10 INSERTS



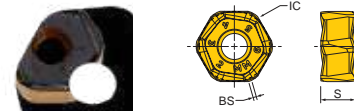
HNGU10_M



HNGU10_MM











HNGU10_HR



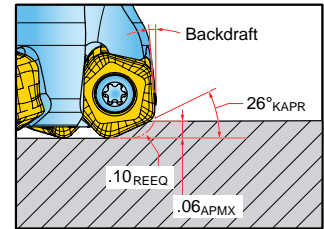
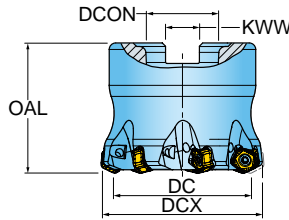
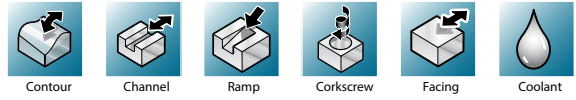
Part Number	Application	BS Wiper Length	IC Inscribed Circle Dia.	S Thickness	NOI Number of Indexes	IH Insert Hand	Grade IN2505	IN2510	IN6515	IN6537
HNGU1007ANTR-M	Medium Roughing	0.039	0.752	0.327	12	Right	•			•
HNGU1007ANTR-MM	Medium, Pos. Rake Angle	0.063	0.752	0.327	12	Right		•		
HNGU1007ANTR-HR	Heavy-Duty	0.039	0.752	0.327	12	Right			•	•

DIPOSHEXA™ 06/10 HARDWARE

								
	Screw	Driver Handle	Torx Driver Blade	Retention Bolt	Coolant Retention Bolt	Torque Driver Handle	Torque Driver Bit	Preset Torque Bit
HN6D-15R01	SM40-100-R0	DS-A00T	DS-T156B1	SD-04-48	-	DS-A00-.25-T	DS-T15B1	DT-35-.25
HN5D-20R01	SM40-100-R0	DS-A00T	DS-T156B1	SD-06-47	SD-06-A6	DS-A00-.25-T	DS-T15B1	DT-35-.25
HN6D-20R01	SM40-100-R0	DS-A00T	DS-T156B	SD-06-47	SD-06-A6	DS-A00-.25-T	DS-T15B1	DT-35-.25
HN5D-25R01	SM40-100-R0	DS-A00T	DS-T156B	SD-08-47	SD08-C9	DS-A00-.25-T	DS-T15B1	DT-35-.25
HN6D-25R01	SM40-100-R0	DS-A00T	DS-T156B	SD-08-47	SD08-C9	DS-A00-.25-T	DS-T15B1	DT-35-.25
HN5D-30R01	SM40-100-R0	DS-A00T	DS-T156B	SD-08-47	SD08-C9	DS-A00-.25-T	DS-T15B1	DT-35-.25
HN6D-30R01	SM40-100-R0	DS-A00T	DS-T156B	SD-08-47	SD08-C9	DS-A00-.25-T	DS-T15B1	DT-35-.25
HN5D-40R01	SM40-100-R0	DS-A00T	DS-T156B	SD-12-82	SD-12-99	DS-A00-.25-T	DS-T15B1	DT-35-.25
HN6D-40R01	SM40-100-R0	DS-A00T	DS-T156B	SD-12-82	SD-12-99	DS-A00-.25-T	DS-T15B1	DT-35-.25
HN5D-50R01	SM40-100-R0	DS-A00T	DS-T156B	SD-12-82	SD-12-99	DS-A00-.25-T	DS-T15B1	DT-35-.25
HN6D-50R01	SM40-100-R0	DS-A00T	DS-T156B	SD-12-82	SD-12-99	DS-A00-.25-T	DS-T15B1	DT-35-.25
HN5D-60R01	SM40-100-R0	DS-A00T	DS-T156B	SD-12-82	-	DS-A00-.25-T	DS-T15B1	DT-35-.25
HN6D-60R01	SM40-100-R0	DS-A00T	DS-T156B	SD-12-82	-	DS-A00-.25-T	DS-T15B1	DT-35-.25
HN5G-25R01	SM50-130-R0	DS-A00T	DS-T206B	SD-08-47	SD08-C9	DS-A00-.25-T	DS-T20B1	DT-44-.25
HN6G-25R01	SM50-130-R0	DS-A00T	DS-T206B	SD-08-47	SD08-C9	DS-A00-.25-T	DS-T20B1	DT-44-.25
HN5G-30R01	SM50-130-R0	DS-A00T	DS-T206B	SD-08-47	SD08-C9	DS-A00-.25-T	DS-T20B1	DT-44-.25
HN6G-30R01	SM50-130-R0	DS-A00T	DS-T206B	SD-08-47	SD08-C9	DS-A00-.25-T	DS-T20B1	DT-44-.25
HN5G-40R01	SM50-130-R0	DS-A00T	DS-T206B	SD-12-89	SD-12-99	DS-A00-.25-T	DS-T20B1	DT-44-.25
HN6G-40R01	SM50-130-R0	DS-A00T	DS-T206B	SD-12-89	SD-12-99	DS-A00-.25-T	DS-T20B1	DT-44-.25
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HN6G-50R01	SM50-130-R0	DS-A00T	DS-T206B	SD-12-89	SD-12-99	DS-A00-.25-T	DS-T20B1	DT-44-.25
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HN6G-60R01	SM50-130-R0	DS-A00T	DS-T206B	SD-12-89	SD-12-99	DS-A00-.25-T	DS-T20B1	DT-44-.25
HN5G-80R01	SM50-130-R0	DS-A00T	DS-T206B	-	-	DS-A00-.25-T	DS-T20B1	DT-44-.25
HN6G-80R01	SM50-130-R0	DS-A00T	DS-T206B	-	-	DS-A00-.25-T	DS-T20B1	DT-44-.25
HN5G-10R01	SM50-130-R0	DS-A00T	DS-T206B	-	-	DS-A00-.25-T	DS-T20B1	DT-44-.25
HN6G-10R01	SM50-130-R0	DS-A00T	DS-T206B	-	-	DS-A00-.25-T	DS-T20B1	DT-44-.25

DIPOSPENTA™ 05 SERIES DP6C

HI-FEED FACE MILL (5MM INSERT)

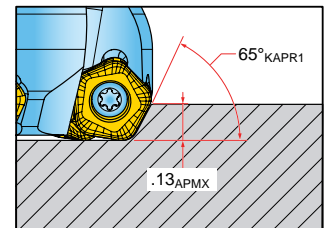
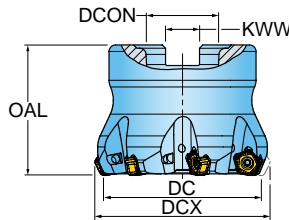


Part Number	DCX Cutting Dia. Max.	DC Cutting Diameter	OAL Overall Length	ZEFF Effective Teeth	REEQ Program Radius Equivalent	DCON Bore Dia.	KWW Keyway	RMPX Ramp Angle Max.
DP6C-15R01	1.500	1.177	1.57	6	0.100	0.500	0.25	0.8
DP6C-20R01	2.000	1.677	1.57	7	0.100	0.750	0.31	0.7
DP6C-25R01	2.500	2.177	1.57	8	0.100	0.750	0.31	0.6

Programing Corner Radius: .10"R.

DIPOSPENTA™ 05 SERIES DM6C

65° FACE MILL (5MM INSERT)



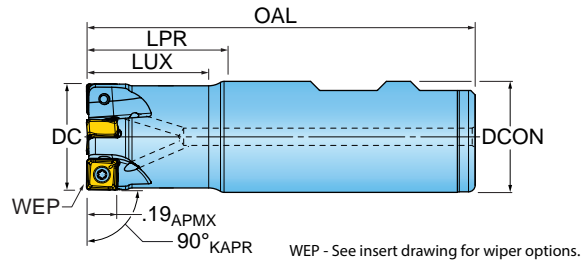
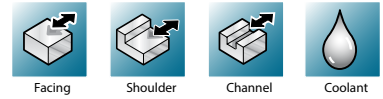
Part Number	DCX Cutting Dia. Max.	DC Cutting Diameter	OAL Overall Length	ZEFF Effective Teeth	DCON Bore Dia.	KWW Keyway
DM6C-15R01	1.500	1.65	1.570	6	0.500	0.250
DM6C-20R01	2.000	2.15	1.570	7	0.750	0.312
DM6C-25R01	2.500	2.65	1.570	8	0.750	0.312
DM6C-30R01	3.000	3.15	1.750	9	1.000	0.375

TRUE 90° SHOULDER MILLS WITH 8-EDGE ECONOMY

- High axial rake reduces cutting loads and promotes smooth machining
- 07 Insert generates true 90° and is optimized to step down axially with minimal mismatch
- 12 Insert generates true 90° up to .33 depth of cut
- Unequally spaced insert placement aids to diffuse vibration
- Integrated wiper flats produce 32-63 Ra surface finishes

DIPOSQUAD™ 07 SERIES 1DJ1E (WELDON SHANK)

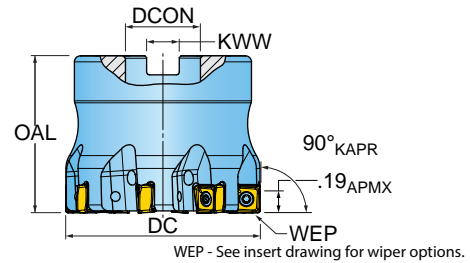
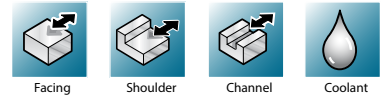
90° ROUGH & FINISH END MILL (7MM INSERT)



Part Number	DC Cutting Dia.	LUX Usable Length Max.	LPR Protruding Length	OAL Overall Length	ZEFF Eff. Teeth	DCON Shank Dia.
1DJ1E-0600779R01	0.625	0.70	0.75	2.66	2	0.625
1DJ1E-0701084R01	0.750	0.95	1.00	3.00	3	0.750
1DJ1E-1001280R01	1.000	1.20	1.25	3.50	4	1.000
1DJ1E-1201581R01	1.250	1.45	1.50	3.75	4	1.250
1DJ1E-1201581R02	1.250	1.45	1.50	3.75	5	1.250
1DJ1E-1501786R01	1.500	1.70	1.75	4.41	5	1.500
1DJ1E-1501786R02	1.500	1.70	1.75	4.41	8	1.500

DIPOSQUAD™ 07 SERIES DJ5E, DJ6E

90° ROUGH & FINISH FACE MILL (7MM INSERT)

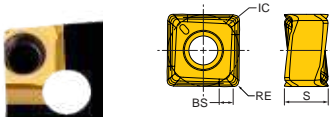


Part Number	DC Cutting Dia.	OAL Overall Length	ZEFF Eff. Teeth	DCON Bore Dia.	KWW Keyway
DJ5E-15R01	1.500	1.57	6	0.500	0.250
DJ5E-20R01	2.000	1.57	8	0.750	0.312
DJ6E-20R01	2.000	1.57	6	0.750	0.312
DJ5E-25R01	2.500	1.57	10	1.000	0.375
DJ6E-25R01	2.500	1.57	7	1.000	0.375
DJ5E-30R01	3.000	1.75	12	1.000	0.375
DJ6E-30R01	3.000	1.75	8	1.000	0.375

DIPOSQUAD™ 07 INSERT



SQGU07_M



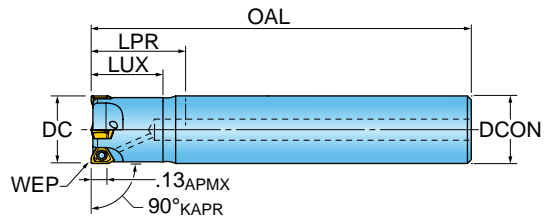
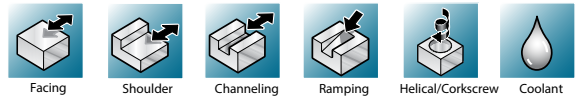
Part Number	Application	RE Corner Radius	BS Wiper Length	IC Inscribed Circle Dia.	S Thickness	NOI Number of Indexes	IH Insert Hand	Grade	IN2505	IN2510	IN2530
SQGU070308TR-M	Multi-Purpose - Integrated Wiper 0.031		0.035	0.275	0.165	8	Right		•	•	•

3-EDGED HIPOSTRIO INSERTS PRICED LIKE 2-EDGED HIPOS PRODUCT = 1 FREE EDGE!

- High positive cutting geometry; ideal for small machines and gummy materials
- Four insert sizes for complete cutter diameter, depth & density coverage
- Ramping capability for cutting versatility
- Inserts with integrated wiper flats typically produce surface finishes between 32-63 Ra
- Cutters ported with coolant

HIPOSTRIO™ 04 SERIES 1KJ1B (CYLINDRICAL SHANK)

90° END MILL (4MM INSERT)



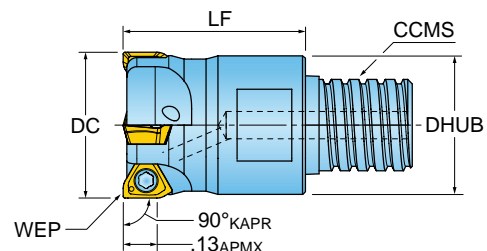
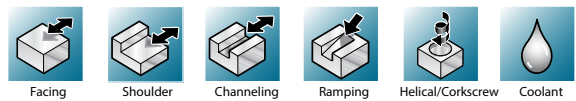
WEP - See insert drawing for wiper options.

Part Number	DC Cutting Diameter	LUX Usable Length Max.	LPR Protruding Length	OAL Overall Length	ZEFF Effective Teeth	DCON Shank Diameter	RMPX Ramp Angle Max.
1KJ1B-03006R7R01	0.312	0.62	1.58	3.00	1	0.312	2.1
1KJ1B-03007R8R01	0.375	0.75	1.58	3.00	1	0.375	2.1
1KJ1B-04007S4R01	0.437	0.75	1.22	3.00	2	0.500	3.0
1KJ1B-05008S4R01	0.500	0.87	1.72	3.50	3	0.500	2.5
1KJ1B-05010S6R01	0.562	1.00	1.59	3.50	3	0.625	2.2
1KJ1B-06010S6R01	0.625	1.00	1.59	3.50	4	0.625	1.6

Designed with modification in mind. Extend usable length by turning back the neck diameter or shorten the overall length by cutting off back end.

HIPOSTRIO™ 04 SERIES 1KJ1B (CHIP-SURFER STYLE)

90° MODULAR END MILL (4MM INSERT)

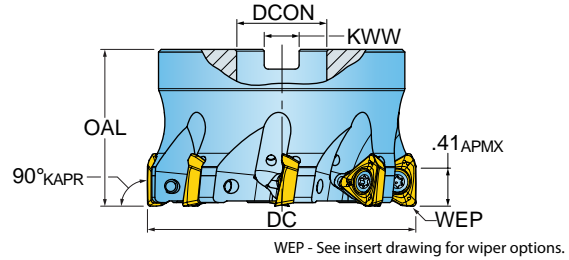
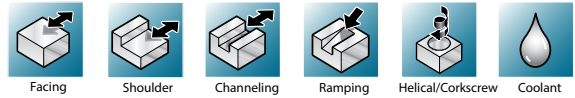


WEP - See insert drawing for wiper options.

Part Number	DC Cutting Diameter	LF Functional Length	ZEFF Effective Teeth	CCMS Connection Code	DHUB Hub Diameter	RMPX Ramp Angle Max.
1KJ1B-03006T6R01	0.375	0.63	2	Chip Surfer T06	0.36	2.1
1KJ1B-05006T8R01	0.500	0.65	3	Chip Surfer T08	0.48	2.5
1KJ1B-06008TRR01	0.625	0.80	4	Chip Surfer T10	0.60	1.6

HIPOSTRIO™ 10 SERIES KJ5G, KJ6G FORMERLY RAMPOT

90° FACE MILL (10MM INSERT)



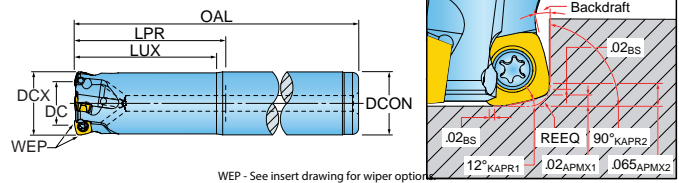
Part Number	DC Cutting Diameter	OAL Overall Length	ZEFF Effective Teeth	DCON Bore Diameter	KWW Keyway	CSP Coolant	RMPX Ramp Angle Max.
KJ6G-15R01	1.500	1.375	4	0.500	0.250	Yes	1.4
KJ5G-20R01	2.000	1.570	5	0.750	0.312	Yes	1.5
KJ6G-20R01	2.000	1.570	3	0.750	0.312	Yes	.8
KJ5G-25R01	2.500	1.570	6	0.750	0.312	Yes	1.1
KJ5G-30R01	3.000	1.750	8	1.000	0.375	Yes	.8
KJ6G-30R01	3.000	1.750	5	1.000	0.375	Yes	.8
KJ6G-30R02	3.000	1.750	3	1.000	0.375	Yes	.8
KJ5G-40R02	4.000	2.375	10	1.500	0.625	Yes	.6
KJ6G-40R02	4.000	2.375	8	1.500	0.625	Yes	.6
KJ6G-50R02	5.000	2.375	11	1.500	0.625	Yes	.5

THE EXPANSION OF OUR MOST POPULAR HIGH-FEED MILLING LINE TO INCLUDE TWO NEW PRODUCT FAMILIES

- 3 distinct insert geometries provide an optimal solution across all material classes and application types
- Ingeniously designed insert mounting for reliable and fast feed-rates
- All inserts include radial wipers for smooth profiling, shouldering and hole interpolation which can eliminate secondary operations
- End mills and face mills incorporating 5 distinct insert sizes and cutter diameters ranging from .375"- 7.000"
- GoldSFeed is the most complete and extensive High-Feed milling line in metalworking

GOLDSFEED™ 04 SERIES 15G1B(CYLINDRICAL SHANK)

HIGH FEED END MILLS (4MM INSERT)

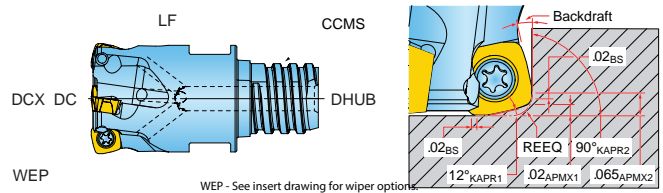
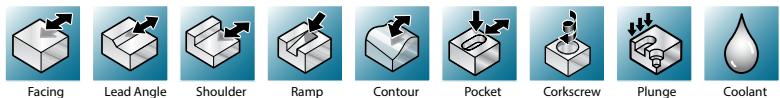


Part Number	DCX Cutting Dia. Max.	DC Cutting Dia.	LUX Usuable Length Max.	LPR Protruding Length	REEQ Program Radius Equivalent	OAL Overall Length	ZEFF Effective Teeth	DCON Shank Dia.	RMPX Ramp Angle Max.
15G1B-03015R8R01	0.375	0.167	1.300	1.500	0.043	2.920	2	0.375	1.80
15G1B-05015S4R01	0.500	0.291	1.300	1.500	0.042	3.280	3	0.500	4.70
15G1B-06015S6R01	0.625	0.415	1.300	1.500	0.042	3.410	4	0.625	3.00
15G1B-07015S7R01	0.750	0.540	1.300	1.500	0.042	3.500	5	0.750	2.20

Insert screw tightening torque: 10-14 in*lb.

GOLDSFEED™ 04 SERIES 15G1B(CHIP•SURFER STYLE)

HIGH FEED END MILLS (4MM INSERT)

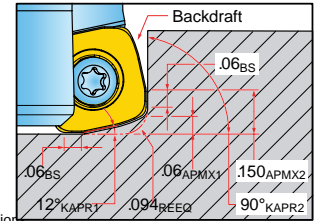
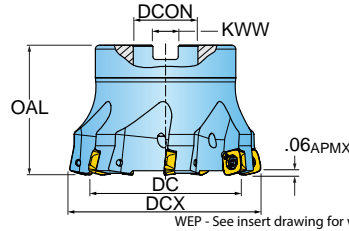


Part Number	DCX Cutting Dia. Max.	DC Cutting Dia.	LF Functional Length	ZEFF Effective Teeth	REEQ Program Radius Equivalent	DHUB Hub Dia.	CCMS Connection Code Machine Side	RMPX Ramp Angle Max.
15G1B-03006T6R01	0.375	0.167	0.669	2	0.043	0.369	Chip Surfer T06	1.80
15G1B-05007T8R01	0.500	0.291	0.748	3	0.042	0.485	Chip Surfer T08	4.70
15G1B-06008TRR01	0.625	0.415	0.827	4	0.042	0.605	Chip Surfer T10	3.00
15G1B-07010TSR01	0.750	0.540	1.024	5	0.042	0.725	Chip Surfer T12	2.20

Insert screw tightening torque: 10-14 in*lb.

GOLDSPEED™ 09 SERIES 5G5F, 5G6F FORMERLY **RAMP**

HIGH FEED FACE MILLS (9MM INSERT)

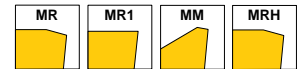


WEP - See insert drawing for wiper options.

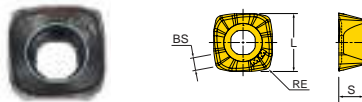
Part Number	DCX Cutting Dia. Max.	DC Cutting Dia.	OAL Overall Length	ZEFF Eff. Teeth	REEQ Program Radius Equivalent	DCON Shank Dia.	KWW Keyway	RMPX Ramp Angle Max.
5G5F-20R01	2.000	1.521	1.97	7	0.094	0.750	0.31	1.5
5G6F-20R01	2.000	1.521	1.97	6	0.094	0.750	0.31	1.5
5G5F-25R01	2.500	2.020	1.97	8	0.094	0.750	0.31	1.1
5G5F-30R01	3.000	2.520	2.00	9	0.094	1.000	0.38	.8
5G6F-30R01	3.000	2.520	2.00	7	0.094	1.000	0.38	.8

Insert screw tightening torque: 14-18 in*lb.

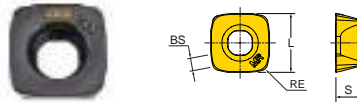
GOLDSPEED™ 09 INSERTS FORMERLY **RAMP**



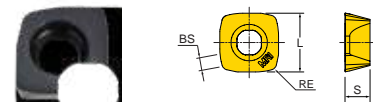
SDXS0904MPR-MM



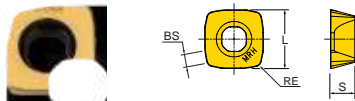
SDXS0904MPR-MR



SDXS0904MPR-MR1



SDXS0904MPR-MRH



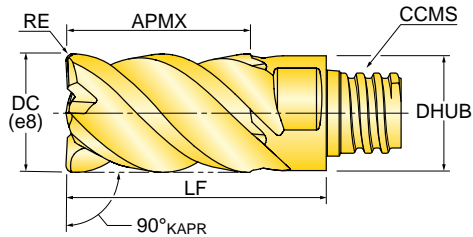
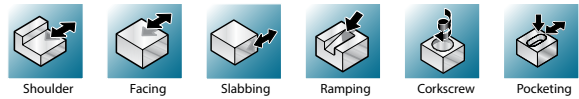
Part Number	Application	RE Corner Radius	BS Wiper Length	L Cutting Edge Length	S Thickness	Grade							
						IN2504	IN4005	IN2505	IN4030	IN2530	IN7035	IN4035	IN2535
SDXS0904MPR-MM	Multi-Purpose	.040	.060	.370	.158		•	•	•	•	•	•	•
SDXS0904MPR-MR	Heavy-Duty	.040	.060	.370	.158		•	•	•	•		•	•
SDXS0904MPR-MR1	Flat-Top, Keen Edge	.040	.060	.370	.158				•	•	•	•	•
SDXS0904MPR-MRH	Hardened Steels	.040	.060	.370	.158	•							

NEW END MILL TIPS WITH 1.5XD FLUTE LENGTH

- 4-6 Flute Roughing Mills equipped with **acirons** to promote accelerated Feed rates and better chip evacuation with airblast
- 4 Flute Rough & Finish Mills equipped with variable pitch to reduce harmonic chatter
- 7-9 Flute Finish Mills equipped different helix and variable pitch to diffuse vibration
- Best suited with Weldon Shank for utmost rigidity and holding
- Tips repeat within +/-0.0005" and can be indexed on the machine in seconds
- Feature variations can be quoted

CHIPSURFER™ SERIES 47D_RQ 90° VARIABLE PITCH END MILL

4 FLUTE, 46' HELIX, CENTER-CUTTING, 1.5XD FLUTE



Part Number	DC Cutting Diameter	RE/CHW Corner Radius/Chamfer	APMX Depth of Cut Max.	LF Functional Length	ZEFF Effective Flutes	FHA Flute Helix Angle	CCMS Connection Code	DHUB Hub Diameter	RMPX Ramp Angle Max.
47D-3146TQRQ01	0.312	0.015 R	0.469	0.709	4	46.5	Chip Surfer T05	0.300	90
47D-3756T6RQ01	0.375	0.015 R	0.563	0.866	4	46.5	Chip Surfer T06	0.366	90
47D-5075T8RQ01	0.500	0.015 R	0.750	1.063	4	46.5	Chip Surfer T08	0.488	90
47D-6293TRRQ01	0.625	0.015 R	0.938	1.319	4	46.5	Chip Surfer T10	0.602	90
47D-7511TSRQ03	0.750	0.031 R	1.125	1.614	4	46.5	Chip Surfer T12	0.726	90
47D-1015TURQ03	1.000	0.031 R	1.500	2.067	4	46.5	Chip Surfer T15	0.941	90

When assembling, be sure tip is seated firmly on shank with no gap. Tightening Torque: T05=60in*lbs, T06=90in*lbs, T08=130in*lbs, T10=250in*lbs, T12=250in*lbs, T15=350in*lbs. No lubricant on adaption. Wrenches sold separately.

CHIPSURFER™ 47D HARDWARE



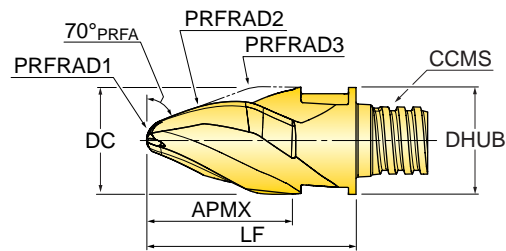
	Thin Wrench	Torque Wrench
47D-3146TQRQ01	WS-0043	DT-60-06
47D-3756T6RQ01	WS-0029	DT-90-08
47D-5075T8RQ01	WS-0030	DT-130-10
47D-6293TRRQ01	WS-0044	DT-250-13
47D-7511TSRQ03	WS-0059	DT-250-16
47D-1015TURQ03	WS-0061	DT-350-20

CIRCLE SEGMENT MILLS FINISH 3X FASTER THAN A BALL NOSE!

- Lens Form targets use on deck features of a part. For use on 3 & 5 Axis machines
- Barrel Form targets use on 90° & drafted walls. For use on 3 & 5 Axis machines
- Taper Form targets use on contoured surfaces. For use on 5 Axis machines
- Radius blends ensure minimum scallop height for superior finishes
- Precision cutting edge profile tolerance of +/- .0004"
- Tips repeat within +/- .0005" and can be indexed on the machine in seconds
- Steel, Heavy Metal & Carbide Shank options

CHIPSURFER™ SERIES 46W_0



TAPER FORM FINISHER FOR STEELS AND HI-TEMPS



Part Number	DC Cutting Diameter	PRFRAD1 Profile Radius	PRFRAD2 Profile Radius	PRFRAD3 Profile Radius	APMX Depth of Cut Max.	LF Functional Length	ZEFF Effective Flutes	FHA Flute Helix Angle	CCMS Connection Code	DHUB Hub Diameter
46W08009TQRB010	8.00 mm	1.50 mm	250.00 mm	4.00 mm	10 mm	15.40 mm	3	30	Chip Surfer T05	7.60 mm
46W10013T6RB020	10.00 mm	2.00 mm	250.00 mm	5.00 mm	14 mm	19.40 mm	3	30	Chip Surfer T06	9.30 mm
46W12013T8RB030	12.00 mm	3.00 mm	250.00 mm	6.00 mm	14 mm	23.40 mm	3	30	Chip Surfer T08	11.50 mm
46W16017TRRB040	16.00 mm	4.00 mm	500.00 mm	8.00 mm	17 mm	26.00 mm	3	30	Chip Surfer T10	15.20 mm

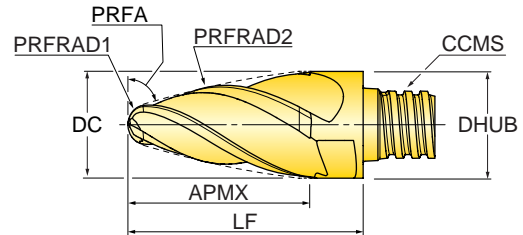
When assembling, be sure tip is seated firmly on shank with no gap. Tightening Torque: T05=60in*lbs, T06=90in*lbs, T08=130in*lbs, T10=250in*lbs. No lubricant on adaption. Wrenches sold separately.

CHIPSURFER™ 46W_0 HARDWARE

		
	Thin Wrench	Torque Wrench
46W08009TQRB010	WS-0043	DT-60-06
46W10013T6RB020	WS-0029	DT-90-08
46W12013T8RB030	WS-0030	DT-130-10
46W16017TRRB040	WS-0044	DT-250-13

CHIP SURFER™ SERIES 47W_0

TAPER FORM FINISHER FOR STEELS AND HI-TEMPS





Part Number	DC Cutting Diameter	PRFRAD1 Profile Radius	PRFRAD2 Profile Radius	PRFA Profile Angle	APMX Depth of Cut Max.	LF Functional Length	ZEFF Effective Flutes	FHA Flute Helix Angle	CCMS Connection Code	DHUB Hub Diameter
47W-3150TQRB06	0.312	0.060	3.150	78	0.530	0.709	4	30	Chip Surfer T05	0.312
47W-3760T6RB12	0.375	0.123	2.950	82	0.600	0.866	4	30	Chip Surfer T06	0.375
47W-5082T8RB16	0.500	0.157	7.500	82	0.820	1.063	4	30	Chip Surfer T08	0.500

METRIC

47W08014TQRB15	8.00 mm	1.50 mm	80.00 mm	78	14.20 mm	18.00 mm	4	30	Chip Surfer T05	8.00 mm
47W10016T6RB20	10.00 mm	2.00 mm	75.00 mm	78	21.30 mm	27.00 mm	4	30	Chip Surfer T06	10.00 mm
47W12021T8RB20	12.00 mm	2.00 mm	85.00 mm	78	16.50 mm	22.00 mm	4	30	Chip Surfer T08	12.00 mm
47W16027T8RB30	16.00 mm	3.00 mm	75.00 mm	78	27.00 mm	33.40 mm	4	30	Chip Surfer T10	16.00 mm

When assembling, be sure tip is seated firmly on shank with no gap. Tightening Torque: T05=60in*lbs, T06=90in*lbs, T08=130in*lbs, T10=250in*lbs. No lubricant on adaption. Wrenches sold separately.

CHIP SURFER™ 47W_0 HARDWARE

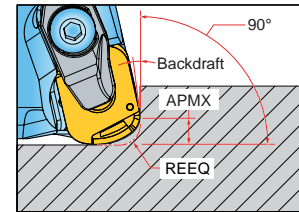
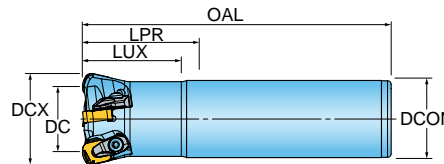
	 Thin Wrench	 Torque Wrench <small>**OPTIONAL**</small>
47W-3150TQRB06	WS-0043	DT-60-06
47W-3760T6RB12	WS-0029	DT-90-08
47W-5082T8RB16	WS-0030	DT-130-10
47W08014TQRB15	WS-0043	DT-60-06
47W10016T6RB20	WS-0029	DT-90-08
47W12021T8RB20	WS-0030	DT-130-10
47W16027T8RB30	WS-0044	DT-250-13

NEW CERASFEED OFFERS EXCEPTIONAL PRODUCTIVITY GAINS!

- Cutter body options include: End Mill and Face Mill
- Cutter diameter range, 1.000" up to 3.000"
- Higher insert densities for super productivity!
- New SiAlON grade IN76N will SPEEDUP demanding milling processes!
- SFM up to 33 times greater than solid carbide (60-90 SFM Carbide versus 3000 SFM Ceramic)!
- Max. Depth of cut (DOC) capability from 1.5mm (.060) to 2.5mm (.098)
- Two unique and optimally designed high-feed insert geometries, double-sided
- Inserts offer 4 or 6 cutting edges for cost-effective machining and economy!
- Super strong insert clamping system ensures stable milling performance
- Lower cutting forces promote efficient and higher productivity milling!

CERASFEED™ 09 SERIES 1ZG3F(CYLINDRICAL SHANK)

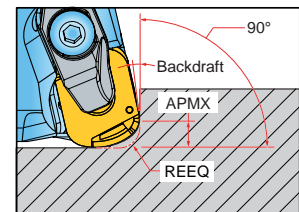
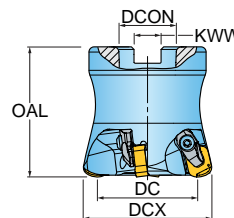
END MILL, 09MM IC INSERT SERIES



Part Number	DCX Cutting Dia. Max.	DC Cutting Dia.	APMX Depth of Cut Max.	OAL Overall Length	ZEFF Eff. Teeth	REEQ Program Radius Equivalent	DCON Shank Dia.	LUX Usable Length Max.	LPR Protruding Length	CSP Coolant	RMPX Ramp Angle Max.
1ZG3F-10040S1R01	1.000	0.600	.060 (1.5mm)	4.000	2	0.134	1.000	1.600	1.76	Air	.7
1ZG3F-10040S1R02	1.000	0.600	.060 (1.5mm)	4.000	3	0.134	1.000	1.600	1.76	Air	.7
1ZG3F-12050S1R01	1.250	0.838	.060 (1.5mm)	5.000	3	0.134	1.250	1.600	2.72	Air	.6
1ZG3F-15050S1R01	1.500	1.084	.060 (1.5mm)	5.000	4	0.134	1.250	1.600	2.72	Air	.65

CERASFEED™ 09 SERIES TG1Q, TG2Q

FACE MILL, 09MM IC INSERT SERIES



Part Number	DCX Cutting Dia. Max.	DC Cutting Dia.	APMX Depth of Cut Max.	OAL Overall Length	ZEFF Eff. Teeth	REEQ Program Radius Equivalent	DCON Bore Dia.	KWW Keyway	CSP Coolant	RMPX Ramp Angle Max.
TG1Q-20R01	2.000	1.583	.060 (1.5mm)	1.570	5	0.134	0.750	0.312	Air	.55
TG2Q-20R01	2.000	1.583	.060 (1.5mm)	1.570	4	0.134	0.750	0.312	Air	.55

CERASPEED™ 09 INSERT

LNXF09



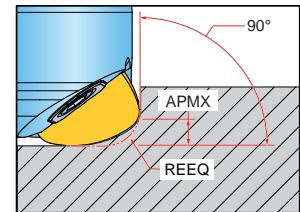
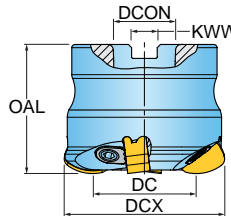
Suggested Operating Parameters

AP Depth of Cut	FZ Feed Per Tooth (in)	Grade
.020 ----> .040	.006 ----> .014	IN76N

Part Number	Application	REEQ Program Radius Equivalent	INSL Insert Length	W1 Insert Width	IC Inscribed Circle Dia.	S1 Thickness Overall	NOI Number of Indexes	IH Insert Hand	Grade	IN76N
LNXF0905R01	Multi-Purpose	.134	.472	.165	.354	.197	4	Right		•

CERASPEED™ 12 SERIES DG1H, DG2H

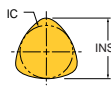
FACE MILL, 12MM IC INSERT SERIES



Part Number	DCX Cutting Dia. Max.	DC Cutting Dia.	APMX Depth of Cut Max.	OAL Overall Length	ZEFF Eff. Teeth	REEQ Program Radius Equivalent	DCON Bore Dia.	KWW Keyway	CSP Coolant	RMPX Ramp Angle Max.
DG1H-20R01	2.000	1.320	.098 (2.5mm)	1.575	5	0.177	0.750	0.312	Air	.6
DG2H-20R01	2.000	1.320	.098 (2.5mm)	1.575	4	0.177	0.750	0.312	Air	.6
DG1H-25R01	2.500	1.820	.098 (2.5mm)	1.575	7	0.177	0.750	0.312	Air	.5
DG2H-25R01	2.500	1.820	.098 (2.5mm)	1.575	6	0.177	0.750	0.312	Air	.5
DG1H-30R01	3.000	2.315	.098 (2.5mm)	1.575	8	0.177	1.000	0.375	Air	.45
DG2H-30R01	3.000	2.315	.098 (2.5mm)	1.575	7	0.177	1.000	0.375	Air	.45

CERASPEED™ 12 INSERT

TNXN12



Suggested Operating Parameters

AP Depth of Cut	FZ Feed Per Tooth (in)	Grade
.040 ----> .080	.006 ----> .014	IN76N

Part Number	Application	REEQ Program Radius Equivalent	INSL Insert Length	IC Inscribed Circle Dia.	S Thickness Overall	NOI Number of Indexes	IH Insert Hand	Grade	IN76N
TNXN1207N01	Multi-Purpose	.177	.535	.472	.276	6	Right		•

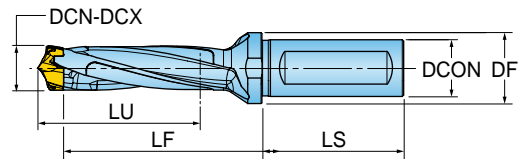
3-FLUTE QUICK CHANGE DRILLS FOR INCREASED PRODUCTIVITY!

- 3-Flute geometry allows for increased productivity by more than 50%
- Diameter range: .6299"-.8228" (D16.0-D20.9mm)
- Can accommodate 3xD and 5xD applications
- Self-Centering geometry
 - Eliminates the need for piloting pre hole
 - Excellent hole precision and finish
 - Reduced spindle loads
- Multiple diameters accommodated with one, single body
- Coolant through for excellent chip evacuation
- New IN2205 grade for excellent tool life in steel and cast iron applications
- Simplified tip replacement provides reduced downtime



TWISTSPEED™ SERIES FD(UNIVERSAL FLAT SHANK)

3XD UNIVERSAL FLAT SHANKS



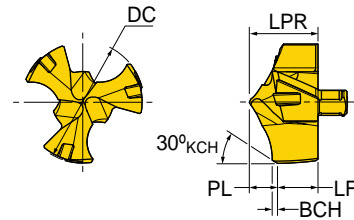
Part Number	DCN Cutting Dia. Min.	DCX Cutting Dia. Max.	SSC Seat Size Code	LU Usable Length	LF Functional Length	LS Shank Length	DCON Shank Diameter	DF Flange Diameter	Key
FD160004818R01	0.6299 (16.00 mm)	0.6654 (16.90 mm)	16	2.05	2.76	1.97	0.750	0.98	KFD16-17
FD170005118R01	0.6693 (17.00 mm)	0.7047 (17.90 mm)	17	2.17	2.94	1.97	0.750	0.98	KFD16-17
FD1800054C8R01	0.7087 (18.00 mm)	0.7441 (18.90 mm)	18	2.28	3.15	2.20	1.000	1.26	KFD18-19
FD1900057C8R01	0.7480 (19.00 mm)	0.7835 (19.90 mm)	19	2.40	3.31	2.20	1.000	1.26	KFD18-19
FD2000060C8R01	0.7874 (20.00 mm)	0.8228 (20.90 mm)	20	2.52	3.47	2.20	1.000	1.26	KFD20-21

3-FLUTE DRILL TIPS



Drilling

Coolant



Part Number	DC Cutting Diameter	SSC Seat Size Code	PL Point Length	LPR Projection Length	LF Functional Length	BCH Chamfer Length	Grade IN2205
FPC1600R01	0.6299 (16.00 mm)	16	0.146	0.354	0.208	0.028	•
FPC1650R01	0.6496 (16.50 mm)	16	0.146	0.354	0.208	0.028	•
FPC1670R01	0.6575 (16.70 mm)	16	0.146	0.354	0.208	0.028	•
FPC1700R01	0.6693 (17.00 mm)	17	0.154	0.374	0.221	0.028	•
FPC1750R01	0.6890 (17.50 mm)	17	0.153	0.374	0.221	0.028	•
FPC1800R01	0.7087 (18.00 mm)	18	0.160	0.398	0.237	0.028	•
FPC1850R01	0.7283 (18.50 mm)	18	0.161	0.398	0.237	0.028	•
FPC1900R01	0.7480 (19.00 mm)	19	0.168	0.421	0.254	0.028	•
FPC1905R01	0.7500 (19.05 mm)	19	0.168	0.421	0.254	0.028	•
FPC1950R01	0.7677 (19.50 mm)	19	0.168	0.421	0.253	0.028	•
FPC2000R01	0.7874 (20.00 mm)	20	0.175	0.445	0.270	0.028	•
FPC2020R01	0.7952 (20.20 mm)	20	0.175	0.445	0.270	0.028	•
FPC2050R01	0.8071 (20.50 mm)	20	0.175	0.445	0.270	0.028	•

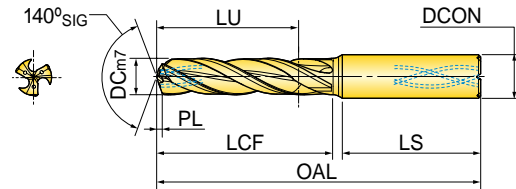
• : Standard items

NEW 3-FLUTE SOLID CARBIDE DRILL FOR 50% HIGHER FEED RATES!

- 3-flute geometry increases productivity by at least 50%
- Self-centering geometry provides precise and accurate holes
- Very high stability in the cut due to its specially designed edge geometry
 - Reinforced cutting edge
 - Side geometry that minimizes heat and reduces cutting forces
- 3 coolant outlet holes to maximum flow and evacuate chips
- New PVD-coated grade IN2205, blue in color for easy identification
- Suitable for steel and cast iron drilling

SOLIDDRILL³™ SERIES FR(3XD)

3-FLUTE SOLID CARBIDE DRILLS WITH COOLANT HOLES

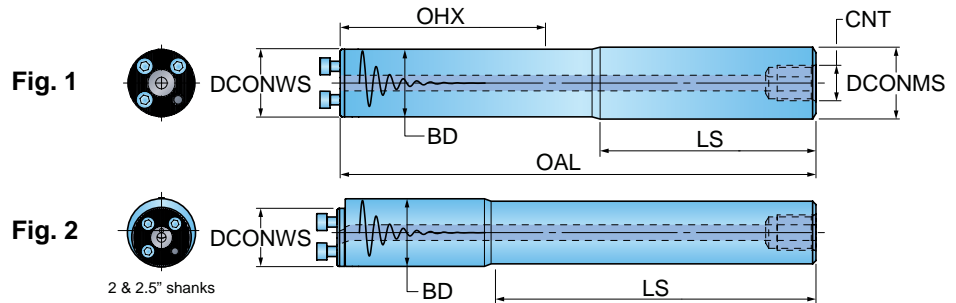


Part Number	DC Cutting Dia. (mm)	DC Cutting Dia. (inch)	DC Cutting Dia. (fraction)	PL Point Length (mm)	LU Usable Length (mm)	LCF Chip Flute Length (mm)	LS Shank Length (mm)	OAL Overall Length (mm)	DCON Shank Diameter (mm)	Grade	IN2505
FR0397017T7R01	3.97	0.1563	5/32"	0.80	17	25	35	66	6		•
FR0400017T7R01	4.00	0.1575	-	0.82	17	25	35	66	6		•
FR0450017T7R01	4.50	0.1772	-	0.88	17	25	35	66	6		•
FR0476017T7R01	4.76	0.1875	3/16"	0.90	17	25	35	66	6		•
FR0500020T7R01	5.00	0.1969	-	0.96	20	29	36	66	6		•
FR0510020T7R01	5.10	0.2008	-	0.98	20	29	36	66	6		•
FR0550020T7R01	5.50	0.2165	-	1.08	20	29	36	66	6		•
FR0556020T7R01	5.56	0.2188	7/32"	1.09	20	29	36	66	6		•
FR0600020T7R01	6.00	0.2362	-	1.17	20	29	36	66	6		•
FR0635024T0R01	6.35	0.2500	1/4"	1.20	24	35	36	79	8		•
FR0650024T0R01	6.50	0.2559	-	1.26	24	35	36	79	8		•
FR0680024T0R01	6.80	0.2677	-	1.29	24	35	36	79	8		•
FR0700024T0R01	7.00	0.2756	-	1.35	24	35	36	79	8		•
FR0714024T0R01	7.14	0.2813	9/32"	1.38	29	42	36	79	8		•
FR0750029T0R01	7.50	0.2953	-	1.40	29	42	36	79	8		•
FR0794029T0R01	7.94	0.3126	5/16"	1.48	29	42	36	79	8		•
FR0800029T0R01	8.00	0.3150	-	1.49	29	42	36	79	8		•
FR0850035T1R01	8.50	0.3346	-	1.63	35	48	40	89	10		•
FR0860035T1R01	8.60	0.3386	-	1.64	35	48	40	89	10		•
FR0873035T1R01	8.73	0.3438	11/32"	1.65	35	48	40	89	10		•
FR0900035T1R01	9.00	0.3543	-	1.72	35	48	40	89	10		•
FR0950035T1R01	9.50	0.3740	-	1.75	35	48	40	89	10		•
FR0953035T1R01	9.53	0.3752	3/8"	1.76	35	48	40	89	10		•
FR1000035T1R01	10.00	0.3937	-	1.85	35	48	40	89	10		•
FR1030040T2R01	10.30	0.4063	13/32"	1.88	40	55	45	102	12		•
FR1050040T2R01	10.50	0.4134	-	1.98	40	55	45	102	12		•
FR1100040T2R01	11.00	0.4331	-	2.07	40	55	45	102	12		•
FR1111040T2R01	11.11	0.4375	7/16"	2.08	40	56	45	102	12		•
FR1150040T2R01	11.50	0.4528	-	2.12	40	56	45	102	12		•
FR1191040T2R01	11.91	0.4688	15/32"	2.20	40	56	45	102	12		•
FR1200040T2R01	12.00	0.4724	-	2.21	40	56	45	102	12		•

7XD AND 10XD ANTI-VIBRATION BORING BARS WITH EXCHANGEABLE HEADS

- Internal boring and threading with L/D ratios of 7xD and 10xD
- Significantly reduce and in some cases completely eliminate vibration
- Unique damping mechanism located inside the body of the bar
- Serrated coupling design for robust tightening
- Internal coolant supply improves chip control & evacuation
- Multiple head designs for different shape positive & negative inserts




SERIES DTA(INCH)



Part Number	Dimension (inch)						CNT Coolant Entry Thread Size	BMC ⁽³⁾ Body Material Code	Figure
	DCONMS Connection Dia. Machine Side	DCONWS ⁽¹⁾ Connection Dia. Workpiece Side	BD Body Dia.	OAL ⁽²⁾ Overall Length	LS Shank Length	OHX Max. Overhang			
DTA-D.625-7D-C	0.625	0.630	0.630	6.14	3.60	3.50	G1/8	S	1
DTA-D.625-10D-E	0.625	0.630	0.630	8.03	5.22	5.50	-	H	1
DTA-D.750-7D-C	0.750	0.787	0.787	7.87	4.94	4.40	G1/4	S	1
DTA-D.750-10D-E	0.750	0.787	0.787	10.24	6.77	7.00	-	H	1
DTA-D1.00-7D-C	1.000	0.984	0.984	10.20	6.83	6.20	G1/4	S	1
DTA-D1.00-10D-C	1.000	0.984	0.984	13.21	8.65	9.20	G1/4	S	1
DTA-D1.25-7D-C	1.250	1.260	1.260	12.48	7.37	7.50	G3/8	S	1
DTA-D1.25-10D-C	1.250	1.260	1.260	16.24	9.67	11.20	G3/8	S	1
DTA-D1.50-7D-C	1.500	1.575	1.575	15.26	9.13	9.20	G1/2	S	1
DTA-D1.50-10D-C	1.500	1.575	1.575	19.80	13.35	13.70	G1/2	S	1
DTA-D2.00-7D-C	2.000	1.575	2.000	20.74	-	12.70	G1/2	S	2
DTA-D2.00-10D-C	2.000	1.575	2.000	26.73	-	18.70	G1/2	S	2
DTA-D2.50-7D-C	2.500	1.575	2.500	26.20	-	16.20	G3/4	S	2
DTA-D2.50-10D-C	2.500	1.575	2.500	33.72	-	23.70	G3/4	S	2

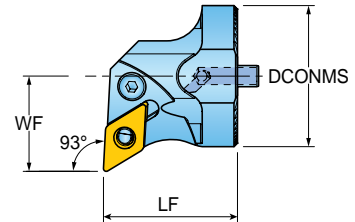
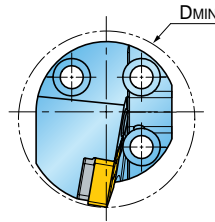
(1) DCONWS dimension of bar must match DCONMS dimension of head.
 (2) See New Product Announcement for details on cutting bars to shorter lengths.
 (3) S-steel body, H-solid carbide body.

Spare Parts

Part Number	Screw	Wrench	Sleeves (Refer to page 133 for detailed dimensions)			
			1.25" OD 	1.50" OD	2.00" OD	2.50" OD
DTA-D.625...	SHM3X0.5X10	L-W2.5	QSL31.8-15.9-L66	QSL38.1-15.9-L106	-	-
DTA-D.750...	SRM3.5XL10-D5.5	L-W2.5	QSL31.8-19-L66	QSL38.1-19-L106	QSL50.8-19-L126	-
DTA-D1.00...	SHM4X0.7X12	L-W3	QSL31.8-25.4-L66	QSL38.1-25.4-L106	QSL50.8-25.4-L126	-
DTA-D1.25...	SHM5X0.8X12	L-W4	-	QSL38.1-31.8-L106	QSL50.8-31.8-L126	QSL63.5-31.8-L156
DTA-D1.50...	SHM6X1X16	L-W5	-	-	QSL50.8-38.1-L126	QSL63.5-38.1-L156
DTA-D2.00...	SHM6X1X16	L-W5	-	-	-	QSL63.5-50.8-L156
DTA-D2.50...	SHM6X1X16	L-W5	-	-	-	-

TABSORBER™ SERIES DTC-HDUNR/L

HOOK LEVER TYPE BORING HEADS (DNMG INSERTS)



Approach angle	Part Number	Dimension (inch)				Coolant	Insert
		DCONMS Connection Dia. Machine Side	LF Functional Length	WF Functional Width	DMIN Min. Bore Dia.		
93° 	✓ DTC-D40-HDUNR/L-1305	1.575	1.496	1.063	1.968	Yes	DN_G 3.53.5...

✓ Marked: For RhinoTurn insert

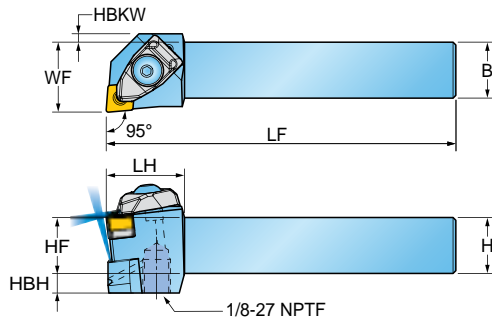
Spare Parts

Part Number	Lever	Lever Screw	Shim		Shim Pin	Wrench
HDUNR/L-1305	LCL 11-NX	LCS 4S	LSD 3.52B	-	LSP 4	L-W 3

THRU-COOLANT HOLDERS

- Pinpoint coolant delivery from top clamp (for cooling) and bottom of holder (for chip breaking)
- T-Type holding system with multi-directional clamping force provides 40% more stability over conventional lever lock holders, plus simple & fast indexing. No additional components required.
- Up to 50% increase in tool life under the same machining conditions
- 20% increase in cutting speed capability in difficult-to-cut materials
- Increased productivity in high-speed machining of titanium and super alloys
- Excellent chip control
- Coolant pressure: Recommend 1000 psi for best results. Capable of 2000 psi.
- Efficient cooling of the insert cutting edge at two different locations

RHINOTURN™ TCLNR/L-TB T-HOLDERS WITH HIGH-PRESSURE COOLANT (CN_33X INSERTS)

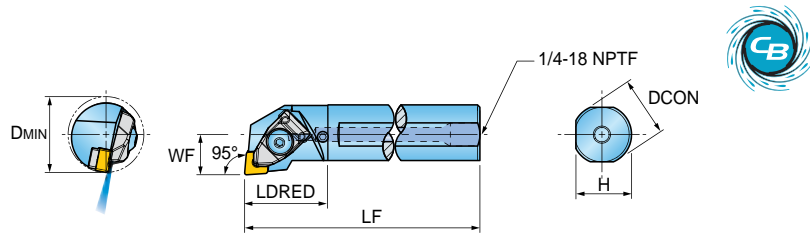


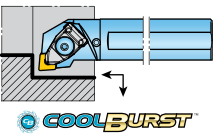
Approach angle	Part Number	Dimension (inch)								Insert
		H Shank Height	HF Functional Height	B Shank Width	LF Functional Length	WF Functional Width	LH Head Length	HBH Head Bottom Offset Height	HBKW Head Back Offset Width	
	TCLNR/L 12-33B-TB	.750	.750	.750	4.5	1.000	1.10	.31	.12	CN... 33...
	TCLNR/L 16-33D-TB	1.000	1.000	1.000	6.0	1.250	1.10	.25	-	
	TCLNR/I20-33D-TB	1.250	1.250	1.250	6.0	1.500	1.10	-	-	

Spare Parts










Part Number	Clamp	Clamp Screw	Spring	Upper O-ring	Lower O-ring	Shim	Shim Screw	Wrench	
TCLNR/L-TB TCRNR/L-TB	DLM 3-NX-TB	BH M4x0.7x 16-TB	DSP 3	O-RING ID4.47xO-RING ID6.07x 1.78	O-RING ID6.07x 1.78	LSC 32A	SO 400851	L-W 3	T 15

RHINOTURN™ A-TCLNR/L-TBT-HOLDER TYPE BORING BARS WITH HIGH-PRESSURE COOLANT (CN_33X INSERT)



Approach angle	Part Number	Dimension (inch)						Insert
		DCON Shank Diameter	DMIN Min. Bore Diameter	LF Functional Length	WF Functional Width	LDRED Reduced Body Dia. Length	H Shank Height	
95° 	A16T-TCLNR/L-33-TB	1.000	1.250	12.0	.64	1.38	.92	CN... 33...
	A20U-TCLNR/L-33-TB	1.250	1.500	14.0	.77	1.38	1.17	

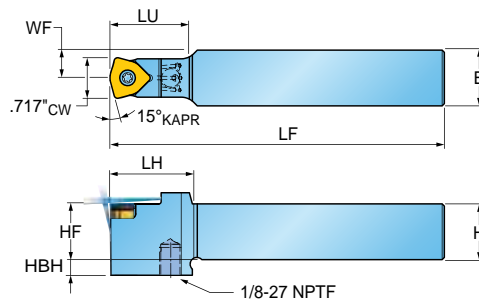
Spare Parts

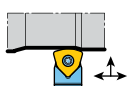

Part Number	Clamp	Clamp screw	Spring	Upper O-ring	Lower O-ring	Shim	Shim screw	Wrench	
A-TCLNR/L-TB	 DLM 3-NX-TB	 BH M4x0.7x 16-TB	 DSP 3	 O-RING ID4.47x 1.78	 O-RING ID6.07x 1.78	 LSC 32	 SO 400731	 L-W 3	 T 15

NEW HIGH-FEED TURNING PRODUCT LINE CAPABLE OF BI-DIRECTIONAL TURNING

- Productive, high feed turning with a maximum .120" (3mm) feed per revolution and up to .080" (2mm) depth of cut
- Positive, trigon-shaped insert with 6 cutting edges (3 indexes) and optimized chip breaker
- Bi-directional (left or right) continuous turning with one neutral holder.
 - Dramatically reduced cycle time
 - Less inventory of holders
- Anti-rotation groove design on the bottom of insert along with a special screw design provides very stable clamping & machining, even at incredibly high feed rates
- **COOLBURST** high-pressure through coolant from above and below insert enhances chip control and prolongs tool life
- TT8115B, TT8125B, TT8135B two-tone colored CVD-coated grades protect against heat and crater wear

TURN SPEED^F™ SERIES SFXCN SCREW TYPE HOLDERS WITH HIGH PRESSURE COOLANT

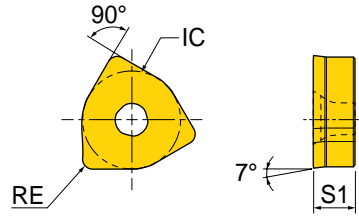
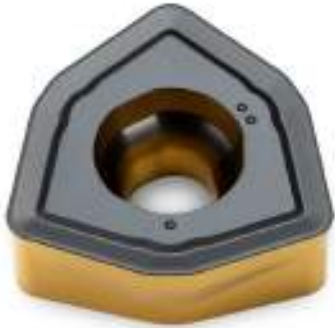


Approach angle	Part Number	Dimension (inch)								Insert
		H Shank Height	HF Functional Height	B Shank Width	LF Functional Length	LU Usable Length	WF Functional Width	LH Head Length	HBH Head Bottom Offset Height	
15°  	SFXCN 16-4.9D	1.000	1.000	1.000	6.0	1.26	.500	1.46	1.26	FCMX 4.944
	SFXCN 20-4.9D	1.250	1.250	1.250	6.0	1.26	.625	1.46	1.26	

Spare Parts

Part Number	Insert Screw	Wrench
SFXCN	SO 45130I 	T 20 

TURN SPEED^F SERIES FCMX POSITIVE HIGH FEED INSERTS



Size	Dimensions (inch)		
	IC Inscribed Circle Dia.	S1 Thickness	RE Corner Radius
4.9 (10)	.608	.256	.063

Part Number ANSI (ISO)	ap (inch)	Feed (ipr)	CVD Coated			
			TT8115B	TT8125B	TT8135B	TT9225
FCMX 4.944 (100616) HFG	.020-.080	.060-.120	•	•		•
FCMX 4.944 (100616) HFP	.020-.080	.040-.100	•	•	•	

•: Standard items

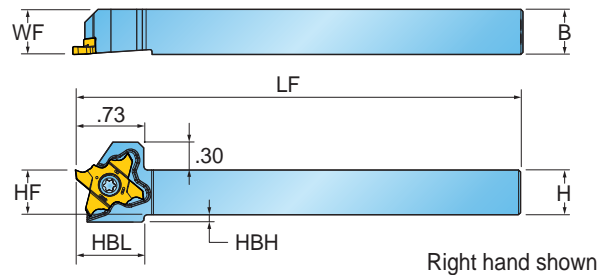
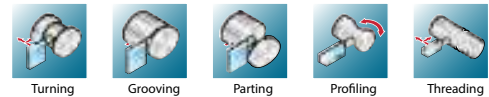


GROOVING FAMILY EXPANDS WITH NEW SERIES OF SMALLER SIZE INSERTS AND HOLDERS FOR SWISS-TYPE AUTOMATIC LATHES

- 4-edge miniature insert for grooving, parting, turning, profiling and threading on Swiss-type lathes
- Inserts are handed so they can part or groove next to a square shoulder
- Grooving width range of .020" ~ .118" (0.5 to 3.0 mm)
- Grooving depth range of .087" ~ .197" (2.2 to 5.0 mm)
- Superior insert position repeatability and strong clamping force results in long tool life
- Holders available with or without **COOLBURST™** high pressure internal coolant supply
- Inserts feature new PVD-coated grade TT4430 and a sharp cutting edge



GOLDFLEX™ SERIES TQHR/L-20

GROOVING AND TURNING HOLDERS FOR SWISS-TYPE AUTOMATIC LATHES



Designation	Dimension (inch)							Insert
	H Shank Height	HF Functional Height	B Shank Width	LF Functional Length	WF Functional Width	HBL Head Bottom Offset Length	HBH Head Bottom Offset Height	
TQHR/L 9.5-20	.375	.375	.375	5.0	.375	.73	0.16	TQS 20 TQJ 20
TQHR/L 12.7-20	.500	.500	.500	5.0	.500	.73	0.08	
TQHR/L 15.9-20	.625	.625	.625	5.0	.625	-	-	
TQHR/L 19-20	.750	.750	.750	5.0	.750	-	-	

Spare Parts

Designation	Screw	Wrench	
	TQHR/L...20	 TS 40A100 ⁽¹⁾ TS 40A100 ⁽²⁾	 T-1508/5

⁽¹⁾ For TQHR[®] ⁽²⁾ For TQHL



DAMESA
TOOLS DE MEXICO

Contáctanos

T: +52 844 300 3963

E: ventas@damesatools.com

W: <http://www.damesatools.com>