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Cutting Tools

DISCOVER INGERSOLL'S MOST INNOVATIVE PRODUCTS



TURNING

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DRILLING

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MILLING

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**CHAMFERING &
SPOT-DRILLING**

PAGE: 16



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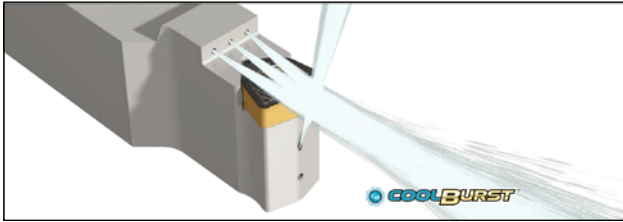
TURN SPEED

NEW HIGH FEED BI-DIRECTIONAL TURNING HOLDERS

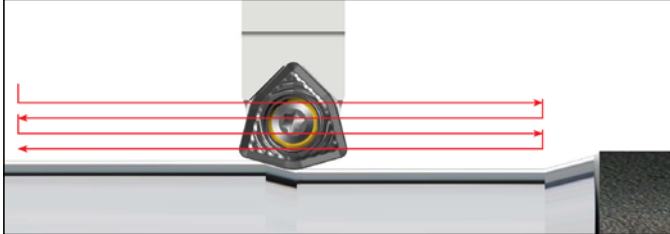
Features & Benefits:

- Productive, high feed turning with a maximum .120" (3mm) feed per revolution and up to .100" (2.5mm) 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 T8115B, TT8125B, TT8135B two-tone colored CVD-coated grades protect against heat and crater wear

• UPPER AND LOWER COOLANT SUPPLY



• CAPABLE OF BI-DIRECTIONAL (LEFT & RIGHT) CONTINUOUS TURNING



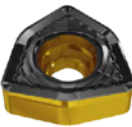
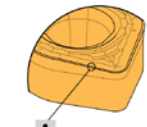
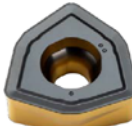
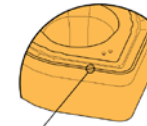
• SCREW HOLE AND GROOVES FOR ANTI-ROTATION

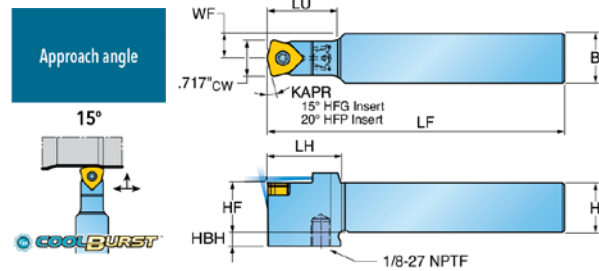


Special screw hole



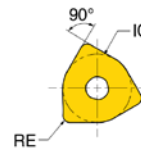
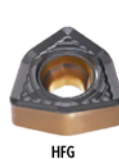
3 grooves on bottom side

CHIPBREAKER	CUTTING EDGE GEOMETRY
 HFG • High feed turning for general purpose in steel and stainless • Low cutting force with special inclination (6°) design • Heat radiator design for effective cooling	 A 0° $\pm$.011" 6°
 HFP • High feed turning for steel, especially in alloy steel • Strong cutting edge	 A 10° $\pm$.012"



Part Number	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	Insert
SFXCN16-4.9D	1.000	1.000	1.000	6.0	1.26	.500	1.46	.26	FCMX 4.944
SFXCN20-4.9D	1.250	1.250	1.250	6.0	1.26	.625	1.46	-	

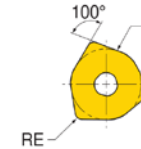
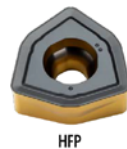
SERIES FCMX-HFG POSITIVE HIGH FEED INSERTS



Size	IC Inscribed Circle Dia.	S1 Thickness	RE Corner Radius
4.9	.608	.256	.063

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

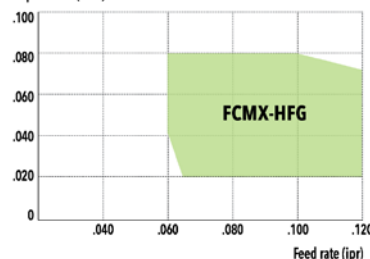
SERIES FCMX-HFP POSITIVE HIGH FEED INSERTS



Size	IC Inscribed Circle Dia.	S1 Thickness	RE Corner Radius
4.9	.647	.256	.063

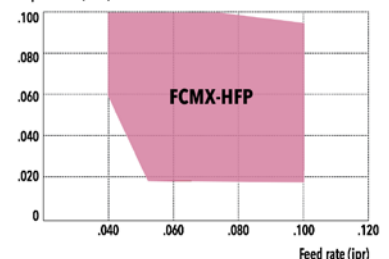
Part Number	ap (inch)	Feed (ipr)	CVD Coated			
			TT8115B	TT8125B	TT8135B	TT9225
FCMX-4.944-HFP	.020-.100	.040-.100	•	•	•	•

Depth of cut (inch)



- Insert: FCMX 100616-HFG
- Cutting speed (sfm): 500
- Material: AISI 1045 (HB200-230)

Depth of cut (inch)



- Insert: FCMX 100616-HFP
- Cutting speed (sfm): 500
- Material: AISI 1045 (HB200-230)

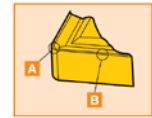


TURNING INSERTS SELECTION GUIDE

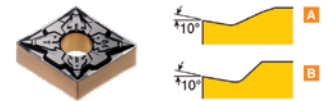
SHOWN BELOW ARE RECOMMENDED CARBIDE GRADES AND CHIPBREAKERS. THE FEED RATE (IPR) IS SHOWN IN BRACKETS AFTER THE CHIPBREAKER.

		NEGATIVE			POSITIVE		
		FINISHING	MEDIUM	ROUGHING	FINISHING	MEDIUM	ROUGHING
: 1ST CHOICE (Feed rate: ipr)							
P Steel	Chip breaker	WS (.002-.014)					
		FA (.002-.010)					
P Steel	Grade	FLP (.003-.012)					
		FC (.003-.014)			FA (.002-.010)		
		FG (.003-.014)					
		MLP (.004-.016)			FG (.003-.010)		
		PC (.005-.019)					
		MGP (.006-.022)			PC (.003-.010)		
		MT (.007-.022)					
		RGP (.010-.028)			FM (.003-.010)		
					MT (.004-.010)		
M Stainless steel	Grade	TT8105B			TT8105B		
		TT8115B			TT8115B		
		TT8125B			TT8125B		
		TT8135B					
		Low Carbon TT5100			TT5100		
		Low Carbon TT7100					
M Stainless steel	Grade	EA (.003-.016)			FA (.002-.010)		
		ML (.006-.016)			FG (.003-.010)		
		EM (.005-.020)			PC (.003-.010)		
		ET (.007-.020)					
		TT9215			TT9215		
		TT9225			TT9225		
S High temp. alloys	Grade	TT9235			TT9235		
		TT8080			TT8080		
		EA (.003-.016)			-GT FGS (.002-.008)		
		ML (.005-.014)			FG (.003-.010)		
		MGS (.006-.016)			PC (.003-.010)		
		MP (.005-.016)					
		ET (.007-.022)			MT (.004-.010)		
		TC430 Ceramic					
		TC3020 Ceramic					
		TC3030 Ceramic					
S High temp. alloys	Grade	TT3005			TT3005		
		TT3010			TT3010		
		TT5080			TT5080		
		TT3020			TT3020		
		TT9080			TT9080		
		TT8020			TT8020		

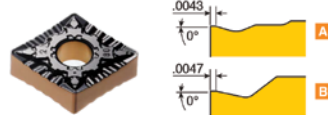
CHIPBREAKERS FOR STEEL



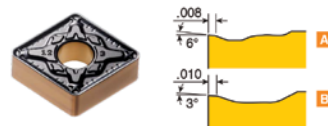
FLP - FINISHING IN STEEL
REPLACING FA & FG



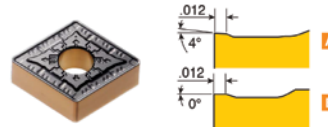
MLP - MEDIUM MACHINING IN STEEL
REPLACING FC & MC



MGP - MEDIUM MACHINING IN STEEL
REPLACING FC, MT & MG

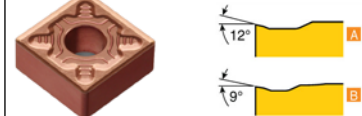


RGP - ROUGHING IN STEEL
REPLACING RT

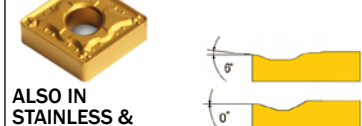


CHIPBREAKERS FOR STAINLESS STEEL

EM • FOR MEDIUM APPLICATIONS
• FOR STAINLESS



PC PC - FOR SEMI-FINISHING TO
MEDIUM MACHINING IN STEEL



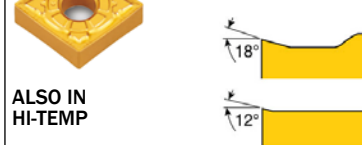
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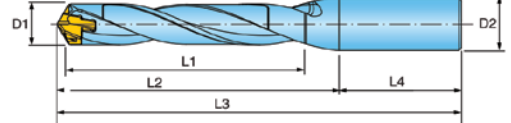
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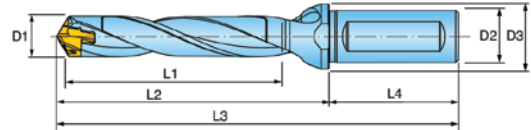
CYLINDRICAL SHANK BODIES WITH COOLANT HOLES



1.5xD 3xD 5xD 8xD 12xD

1.5xD					3xD					5xD					8xD					12xD				
D1	D2	L4	Pocket Size	PART#	D1	D2	L4	PART#	D1	D2	L4	PART#	D1	D2	L4	PART#	D1	D2	L4	PART#	D1	D2	L4	PART#
0.2362 - 0.2520	0.500	1.77	6	TD0600009S4R01	0.71	1.26	3.03	TD0600018S4R01	1.18	1.73	3.50	TD0600030S4R01	—	—	—	—	—	—	—	—	—	—	—	—
0.2560 - 0.2716	0.500	1.77	6.5	TD0650010S4R01	0.79	1.33	3.10	TD0650020S4R01	1.30	1.84	3.61	TD0650033S4R01	—	—	—	—	—	—	—	—	—	—	—	—
0.2756 - 0.2913	0.500	1.77	7	TD0700010S4R01	0.83	1.40	3.170	TD0700021S4R01	1.38	1.95	3.720	TD0700035S4R01	2.20	2.78	4.550	TD0700056S4R01	—	—	—	—	—	—	—	—
0.2953 - 0.3110	0.500	1.77	7.5	TD0750011S4R01	0.89	1.46	3.230	TD0750022S4R01	1.48	2.05	3.820	TD0750060S4R01	2.28	2.94	4.710	TD0750060S4R01	—	—	—	—	—	—	—	—
0.3150 - 0.3307	0.500	1.77	8	TD0800012S4R01	0.94	1.55	3.320	TD0800024S4R01	1.57	2.18	3.950	TD0800040S4R01	2.52	3.13	4.900	TD0800064S4R01	3.84	4.39	6.16	TD0800096S4R01	—	—	—	—
0.3346 - 0.3504	0.500	1.77	8.5	—	1.00	1.61	3.380	TD0850025S4R01	1.67	2.28	4.050	TD0850042S4R01	2.68	3.32	5.090	TD0850068S4R01	4.08	4.62	6.39	TD0850102S4R01	—	—	—	—
0.3543 - 0.3701	0.500	1.77	9	TD0900013S4R01	1.06	1.69	3.460	TD0900027S4R01	1.77	2.39	4.160	TD0900045S4R01	2.83	3.46	5.230	TD0900072S4R01	4.32	4.87	6.65	TD0900108S4R01	—	—	—	—
0.3740 - 0.3898	0.500	1.77	9.5	—	1.12	1.74	3.510	TD0950028S4R01	1.87	2.49	4.260	TD0950047S4R01	2.99	3.65	5.420	TD0950076S4R01	4.56	5.11	6.88	TD0950114S4R01	—	—	—	—
0.3937 - 0.4094	0.625	1.89	10	TD1000015S6R01	1.18	1.82	3.710	TD1000030S6R01	1.97	2.61	4.500	TD1000050S6R01	3.15	3.79	5.680	TD1000080S6R01	4.80	5.36	7.25	TD1000120S6R01	—	—	—	—
0.4134 - 0.4291	0.625	1.89	10.5	—	1.26	1.88	3.770	TD1050031S6R01	2.09	2.70	4.590	TD1050052S6R01	3.31	3.94	5.830	TD1050084S6R01	5.04	5.60	7.45	TD1050126S6R01	—	—	—	—
0.4331 - 0.4488	0.625	1.89	11	TD1100016S6R01	1.30	1.95	3.840	TD1100033S6R01	2.17	2.82	4.710	TD1100055S6R01	3.46	4.12	6.010	TD1100088S6R01	5.28	5.85	7.74	TD1100132S6R01	—	—	—	—
0.4528 - 0.4685	0.625	1.89	11.5	—	1.38	2.01	3.900	TD1150034S6R01	2.28	2.92	4.810	TD1150057S6R01	3.62	4.28	6.170	TD1150092S6R01	5.52	6.09	7.98	TD1150138S6R01	—	—	—	—
0.4724 - 0.4882	0.625	1.89	12	TD1200018S6R01	1.42	2.09	3.980	TD1200036S6R01	2.36	3.03	4.920	TD1200060S6R01	3.78	4.45	6.340	TD1200096S6R01	5.76	6.34	8.23	TD1200144S6R01	—	—	—	—
0.4921 - 0.5079	0.625	1.89	12.5	—	1.46	2.15	4.040	TD1250037S6R01	2.44	3.13	5.020	TD1250062S6R01	3.94	4.61	6.500	TD1250100S6R01	6.00	6.58	8.47	TD1250150S6R01	—	—	—	—
0.5118 - 0.5276	0.625	1.89	13	TD1300019S6R01	1.54	2.23	4.120	TD1300039S6R01	2.56	3.25	5.140	TD1300065S6R01	4.09	4.79	6.680	TD1300104S6R01	6.14	6.81	8.70	TD1300156S6R01	—	—	—	—
0.5315 - 0.5472	0.625	1.89	13.5	—	1.61	2.29	4.180	TD1350040S6R01	2.68	3.35	5.240	TD1350067S6R01	4.25	4.94	6.830	TD1350108S6R01	6.38	7.05	8.94	TD1350162S6R01	—	—	—	—
0.5512 - 0.5669	0.625	1.89	14	TD1400021S6R01	1.65	2.44	4.330	TD1400042S6R01	2.76	3.55	5.440	TD1400070S6R01	4.41	5.20	7.090	TD1400112S6R01	6.61	7.40	9.29	TD1400168S6R01	—	—	—	—
0.5709 - 0.5866	0.625	1.89	14.5	—	1.73	2.50	4.390	TD1450043S6R01	2.87	3.65	5.540	TD1450072S6R01	4.57	5.36	7.250	TD1450116S6R01	6.85	7.64	9.53	TD1450174S6R01	—	—	—	—
0.5906 - 0.6260	0.750	1.97	15	TD1500022S7R01	1.77	2.70	4.670	TD1500045S7R01	2.95	3.89	5.860	TD1500075S7R01	4.72	5.66	7.630	TD1500120S7R01	7.09	8.27	10.24	TD1500180S7R01	—	—	—	—
0.6299 - 0.6654	0.750	1.97	16	TD1600024S7R01	1.89	2.89	4.860	TD1600048S7R01	3.15	4.15	6.120	TD1600080S7R01	5.04	6.04	8.010	TD1600128S7R01	7.56	8.82	10.79	TD1600192S7R01	—	—	—	—
0.6693 - 0.7047	0.750	1.97	17	TD1700025S7R01	2.01	3.07	5.040	TD1700051S7R01	3.35	4.41	6.380	TD1700085S7R01	5.35	6.41	8.380	TD1700136S7R01	8.03	9.37	11.34	TD1700204S7R01	—	—	—	—
0.7087 - 0.7441	1.000	2.20	18	TD1800027S1R01	2.13	3.25	5.450	TD1800054S1R01	3.54	4.67	6.870	TD1800090S1R01	5.67	6.79	8.990	TD1800144S1R01	8.50	9.92	12.37	TD1800216S1R01	—	—	—	—
0.7480 - 0.7835	1.000	2.20	19	TD1900028S1R01	2.24	3.43	5.630	TD1900057S1R01	3.74	4.92	7.120	TD1900095S1R01	5.98	7.17	9.370	TD1900152S1R01	8.98	10.47	12.68	TD1900228S1R01	—	—	—	—
0.7874 - 0.8228	1.000	2.20	20	TD2000030S1R01	2.36	3.61	5.810	TD2000059S1R01	3.94	5.18	7.380	TD2000100S1R01	6.30	7.54	9.740	TD2000160S1R01	9.45	11.02	13.23	TD2000240S1R01	—	—	—	—
0.8268 - 0.8622	1.000	2.20	21	TD2100031S1R01	2.48	3.79	5.990	TD2100063S1R01	4.13	5.44	7.640	TD2100105S1R01	6.61	7.92	10.120	TD2100168S1R01	9.92	11.57	13.78	TD2100252S1R01	—	—	—	—
0.8661 - 0.9016	1.000	2.20	22	TD2200033S1R01	2.60	3.97	6.170	TD2200065S1R01	4.33	5.70	7.900	TD2200110S1R01	6.93	8.30	10.500	TD2200176S1R01	10.39	12.13	14.33	TD2200264S1R01	—	—	—	—
0.9055 - 0.9409	1.250	2.36	23	TD2300034S9R01	2.72	4.15	6.510	TD2300069S9R01	4.53	5.96	8.320	TD2300115S9R01	7.24	8.68	11.040	TD2300184S9R01	10.87	12.68	15.04	TD2300276S9R01	—	—	—	—
0.9449 - 0.9803	1.250	2.36	24	TD2400036S9R01	2.83	4.33	6.690	TD2400072S9R01	4.72	6.22	8.580	TD2400120S9R01	7.56	9.06	11.420	TD2400192S9R01	11.34	13.23	15.59	TD2400288S9R01	—	—	—	—
0.9843 - 1.0197	1.250	2.36	25	TD2500037S9R01	2.95	4.51	6.870	TD2500075S9R01	4.92	6.48	8.840	TD2500125S9R01	7.87	9.43	11.790	TD2500200S9R01	11.81	13.78	16.14	TD2500300S9R01	—	—	—	—

WITH WELDON SHANKS



1.5xD 3xD 5xD 8xD

					1.5xD				3xD				5xD				8xD			
D1 Diameter Range	D2	D3	L4	Pocket Size	L1	L2	L3	PART#	L1	L2	L3	PART#	L1	L2	L3	PART#	L1	L2	L3	PART#
0.2362 - 0.2520	0.500	0.63	1.77	6	0.35	0.91	2.68	TD0600009B9R01	0.71	1.26	3.03	TD0600018B9R01	1.18	1.73	3.50	TD0600030B9R01	—	—	—	—
0.2560 - 0.2716	0.500	0.63	1.77	6.5	0.39	0.95	2.72	TD0650010B9R01	0.79	1.33	3.10	TD0650020B9R01	1.30	1.84	3.61	TD0650033B9R01	—	—	—	—
0.2756 - 0.2913	0.500	0.63	1.77	7	0.43	0.99	2.760	TD0700010B9R01	0.83	1.40	3.170	TD0700021B9R01	1.38	1.95	3.720	TD0700035B9R01	0.43	0.99	2.760	TD0700056B9R01
0.2953 - 0.3110	0.500	0.63	1.77	7.5	0.44	1.02	2.790	TD0750011B9R01	0.89	1.46	3.230	TD0750022B9R01	1.48	2.05	3.820	TD0750037B9R01	2.28	2.94	4.710	TD0750060B9R01
0.3150 - 0.3307	0.500	0.63	1.77	8	0.47	1.10	2.870	TD0800012B9R01	0.94	1.55	3.320	TD0800024B9R01	1.57	2.18	3.950	TD0800040B9R01	2.52	3.13	4.900	TD0800064B9R01
0.3346 - 0.3504	0.500	0.63	1.77	8.5	—	—	—	—	1.00	1.61	3.380	TD0850025B9R01	1.67	2.28	4.050	TD0850042B9R01	2.68	3.32	5.090	TD0850068B9R01
0.3543 - 0.3701	0.500	0.63	1.77	9	0.55	1.15	2.920	TD0900013B9R01	1.06	1.69	3.460	TD0900027B9R01	1.77	2.39	4.160	TD0900045B9R01	2.83	3.46	5.230	TD0900072B9R01
0.3740 - 0.3898	0.500	0.63	1.77	9.5	—	—	—	—	1.12	1.74	3.510	TD0950028B9R01	1.87	2.49	4.260	TD0950047B9R01	2.99	3.65	5.420	TD0950076B9R01
0.3937 - 0.4094	0.625	0.79	1.89	10	0.59	1.23	3.120	TD1000015C0R01	1.18	1.82	3.710	TD1000030C0R01	1.97	2.61	4.500	TD1000050C0R01	3.15	3.79	5.680	TD1000080C0R01
0.4134 - 0.4291	0.625	0.79	1.89	10.5	—	—	—	—	1.26	1.88	3.770	TD1050031C0R01	2.09	2.70	4.590	TD1050052C0R01	3.31	3.94	5.830	TD1050084C0R01
0.4331 - 0.4488	0.625	0.79	1.89	11	0.67	1.30	3.190	TD1100016C0R01	1.30	1.95	3.840	TD1100033C0R01	2.17	2.82	4.710	TD1100055C0R01	3.46	4.12	6.010	TD1100088C0R01
0.4528 - 0.4685	0.625	0.79	1.89	11.5	—	—	—	—	1.38	2.01	3.900	TD1150034C0R01	2.28	2.92	4.810	TD1150057C0R01	3.62	4.28	6.170	TD1150092C0R01
0.4724 - 0.4882	0.625	0.79	1.89	12	0.71	1.38	3.270	TD1200018C0R01	1.42	2.09	3.980	TD1200036C0R01	2.36	3.03	4.920	TD1200060C0R01	3.78	4.45	6.340	TD1200096C0R01
0.4912 - 0.5079	0.625	0.79	1.89	12.5	—	—	—	—	1.46	2.15	4.040	TD1250037C0R01	2.44	3.13	5.020	TD1250062C0R01	3.94	4.61	6.500	TD1250100C0R01
0.5118 - 0.5276	0.625	0.79	1.89	13	0.79	1.46	3.350	TD1300019C0R01	1.54	2.23	4.120	TD1300039C0R01	2.56	3.25	5.140	TD1300065C0R01	4.09	4.79	6.680	TD1300104C0R01
0.5315 - 0.5472	0.625	0.79	1.89	13.5	—	—	—	—	1.61	2.29	4.180	TD1350040C0R01	2.68	3.35	5.240	TD1350067C0R01	4.25	4.94	6.830	TD1350108C0R01
0.5512 - 0.5669	0.625	0.79	1.89	14	0.83	1.62	3.510	TD1400021C0R01	1.65	2.44	4.330	TD1400042C0R01	2.76	3.55	5.440	TD1400070C0R01	4.41	5.20	7.090	TD1400112C0R01
0.5709 - 0.5866	0.625	0.79	1.89	14.5	—	—	—	—	1.73	2.50	4.390	TD1450043C0R01	2.87	3.65	5.540	TD1450072C0R01	4.57	5.36	7.250	TD1450116C0R01
0.5906 - 0.6062	0.750	0.98	1.97	15	0.91	1.82	3.790	TD150002218R01	1.77	2.70	4.670	TD150004518R01	2.95	3.89	5.860	TD150007518R01	4.72	5.66	7.630	TD150012018R01
0.6299 - 0.6654	0.750	0.98	1.97	16	0.94	1.94	3.910	TD160002418R01	1.89	2.89	4.860	TD160004818R01	3.15	4.15	6.120	TD160008018R01	5.04	6.04	8.010	TD160012818R01
0.6693 - 0.7047	0.750	0.98	1.97	17	1.02	2.06	4.030	TD170002518R01	2.01	3.07	5.040	TD170005118R01	3.35	4.41	6.380	TD170008118R01	5.35	6.41	8.380	TD170013618R01
0.7087 - 0.7441	1.000	1.26	2.20	18	1.06	2.19	4.390	TD1800027C8R01	2.13	3.25	5.450	TD1800054C8R01	3.54	4.67	6.870	TD1800090C8R01	5.67	6.79	8.990	TD1800144C8R01
0.7480 - 0.7835	1.000	1.26	2.20	19	1.14	2.30	4.500	TD1900028C8R01	2.24	3.43	5.630	TD1900057C8R01	3.74	4.92	7.120	TD1900095C8R01	5.98	7.17	9.370	TD1900152C8R01
0.7874 - 0.8228	1.000	1.26	2.20	20	1.18	2.43	4.630	TD2000030C8R01	2.36	3.61	5.810	TD2000060C8R01	3.94	5.18	7.380	TD2000100C8R01	6.30	7.54	9.740	TD2000160C8R01
0.8268 - 0.8622	1.000	1.26	2.20	21	1.26	2.55	4.750	TD2100031C8R01	2.48	3.79	5.990	TD2100063C8R01	4.13	5.44	7.640	TD2100105C8R01	6.61	7.92	10.120	TD2100168C8R01
0.8661 - 0.9016	1.000	1.26	2.20	22	1.30	2.67	4.870	TD2200033C8R01	2.60	3.97	6.170	TD2200066C8R01	4.33	5.70	7.900	TD2200110C8R01	6.93	8.30	10.500	TD2200176C8R01
0.9055 - 0.9409	1.250	1.65	2.36	23	1.38	2.79	5.150	TD2300034B7R01	2.72	4.15	6.510	TD2300069B7R01	4.53	5.96	8.320	TD2300115B7R01	7.24	8.68	11.040	TD2300184B7R01
0.9449 - 0.9803	1.250	1.65	2.36	24	1.42	2.91	5.270	TD2400036B7R01	2.83	4.33	6.690	TD2400072B7R01	4.72	6.22	8.580	TD2400120B7R01	7.56	9.06	11.420	TD2400192B7R01
0.9843 - 1.0197	1.250	1.65	2.36	25	1.50	3.03	5.390	TD2500037B7R01	2.95	4.51	6.870	TD2500125B7R01	4.92	6.48	8.840	TD2500125B7R01	7.87	9.43	11.790	TD2500200B7R01

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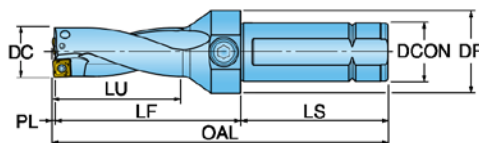
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INDEXABLE DRILLS WITH SIDE COOLANT PORT



Ingersoll has implemented a longer shank (-R02) that will give the **QUADOTWIST** bodies additional stability when used in stationary applications, allowing two-screw contact with the shank flat creating a more rigid set up. Also includes a cutoff notch to shorten the shank for rotating applications, if necessary.



NOTE: Coolant fittings
PF0012, PF0013 & PF0015
are ordered separately.



															COMPONENTS											
DC (mm)	DC (inch)	PL	DCON	DF	LS	Insert	2xD				3xD				4xD				5xD				Screw	Torx	Coolant Fitting	Flange Plug
							PART #	LU	LF	OAL	PART #	LU	LF	OAL	PART #	LU	LF	OAL	PART #	LU	LF	OAL				
12.7	0.500	0.032	1.000	1.26	3.16	SOMT040204	QR0127025NSR02	1.02	2.05	2.00	QR0127038NSR02	1.54	2.56	5.71	QR0127051NSR02	2.05	3.07	6.22	QR0127064NSR02	2.56	3.58	6.73	SM18-041-00	DS-TP06S-NEU	PF-0012	PP02-01
15.3	0.531	0.032	1.000	1.26	3.16		QR0135025NSR02	1.10	2.13	2.28	QR0135041NSR02	1.65	2.68	5.83	QR0135054NSR02	2.20	3.23	6.38	QR0135068NSR02	2.76	3.78	6.93				
14.3	0.563	0.030	1.000	1.26	3.16		QR0143029NSR02	1.13	2.13	5.28	QR0143043NSR02	1.69	2.68	5.83	QR0143057NSR02	2.25	3.23	6.38	QR0143072NSR02	2.81	3.78	6.93				
15.0	0.591	0.030	1.000	1.26	3.16	SOMT050204	QR0150043NSR02	1.19	2.24	3.59	QR0150045NSR02	1.78	2.83	5.98	QR0150060NSR02	2.37	3.43	6.58	QR0150075NSR02	2.96	4.02	7.17	SM20-043-00	DS-TP06S-NEU	PF-0012	PP02-01
15.9	0.626	0.030	1.000	1.26	3.16		QR0159032NSR02	1.25	2.36	5.51	QR0159048NSR02	1.87	2.99	6.14	QR0159064NSR02	2.50	3.62	6.77	QR0159080NSR02	3.13	4.25	7.40				
16.7	0.658	0.033	1.000	1.26	3.16		QR0167033NSR02	1.31	2.44	5.59	QR0167050NSR02	1.97	3.11	6.26	QR0167067NSR02	2.63	3.78	6.93	QR0167084NSR02	3.29	4.45	7.60				
17.5	0.689	0.033	1.000	1.26	3.16	SOMT060204	QR0175035NSR02	1.38	2.56	5.71	QR0175053NSR02	2.06	3.27	6.42	QR0175070NSR02	2.75	3.98	7.13	QR0175088NSR02	3.44	4.69	7.83	TS 220521/ H-G-P	DS-TP07S	PF-0012	PP02-01
18.3	0.721	0.033	1.000	1.26	3.16		QR0183037NSR02	1.44	2.56	5.71	QR0183055NSR02	2.16	3.27	6.42	QR0183073NSR02	2.87	3.98	7.13	QR0183092NSR02	3.59	4.69	7.83				
19.1	0.750	0.033	1.000	1.26	3.16		QR0191038NSR02	1.50	2.64	7.95	QR0191057NSR02	2.25	3.39	6.54	QR0191076NSR02	3.00	4.13	7.28	QR0191095NSR02	3.75	4.88	8.03				
19.8	0.781	0.045	1.000	1.26	3.16	SOMT070306	QR0198040NSR02	1.56	2.80	5.94	QR0198059NSR02	2.34	3.58	6.73	QR0198079NSR02	3.13	4.37	7.52	QR0198099NSR02	3.91	5.16	8.31	TS 220521/ H-G-P	DS-TP07S	PF-0012	PP02-01
20.6	0.813	0.045	1.000	1.26	3.16		QR0206041NSR02	1.63	2.87	6.02	QR0206062NSR02	2.44	3.70	6.85	QR0206082NSR02	3.25	4.53	7.68	QR0206103NSR02	4.07	5.35	8.50				
21.4	0.843	0.045	1.000	1.26	3.16		QR0214042NSR02	1.69	2.95	6.10	QR0214064NSR02	2.53	3.82	6.97	QR0214086NSR02	3.37	4.69	7.84	QR0214107NSR02	4.22	5.55	8.70				
22.2	0.874	0.045	1.000	1.26	3.16	SOMT08T306	QR0222044NSR02	1.75	3.06	6.17	QR0222066NSR02	2.64	3.95	7.02	QR0222088NSR02	3.50	4.81	7.92	QR0222109NSR02	4.38	5.65	8.77	SO 250651	HZS.0004	PF-0013	PP04-01
23.0	0.906	0.049	1.250	1.77	3.16		QR0230046NSR02	1.81	3.19	3.44	QR0230069NSR02	2.71	4.05	7.24	QR0230089NSR02	3.62	5.00	8.15	QR0230115NSR02	4.53	5.95	9.06				
23.8	0.938	0.049	1.250	1.77	3.16		QR0238038NSR02	1.88	3.31	6.46	QR0238071NSR02	2.81	4.25	7.40	QR0238095NSR02	3.75	5.20	8.35	QR0238119NSR02	4.69	6.14	9.29				
24.6	0.969	0.049	1.250	1.77	3.16	SOMT08T306	QR0246049NSR02	1.94	3.43	6.57	QR0246074NSR02	2.91	4.41	7.56	QR0246098NSR02	3.87	5.39	8.54	QR0246123NSR02	4.85	6.38	9.53	SO 250651	HZS.0004	PF-0013	PP04-01
25.0	0.984	0.049	1.250	1.77	3.16		QR0250050NSR02	1.97	3.43	6.57	QR0250075NSR02	2.95	4.41	7.56	QR0250100NSR02	3.94	5.39	8.54	QR0250125NSR02	4.92	6.38	9.53				
25.4	1.000	0.049	1.250	1.77	3.16		QR0254051NSR02	2.00	3.50	6.65	QR0254076NSR02	3.00	4.53	7.68	QR0254102NSR02	4.00	5.55	8.70	QR0254127NSR02	5.00	6.57	9.72				
26.2	1.031	0.049	1.250	1.77	3.16	SOMT09T308	QR0262052NSR02	2.06	3.50	6.65	QR0262079NSR02	3.09	4.53	7.68	QR0262105NSR02	4.13	5.55	8.70	QR0262131NSR02	5.16	6.57	9.72	SM35-088-60	DS-T10S	PF-0013	PP04-01
27.0	1.063	0.059	1.250	1.77	3.16		QR0270054NSR02	2.13	3.43	6.57	QR0270081NSR02	3.19	4.49	7.64	QR0270108NSR02	4.25	5.71	8.86	QR0270135NSR02	5.31	6.61	9.76				
27.8	1.094	0.059	1.250	1.77	3.16		QR0278056NSR02	2.19	3.50	6.65	QR0278083NSR02	3.28	4.61	7.76	QR0278111NSR02	4.38	5.71	8.86	QR0278139NSR02	5.47	6.81	9.96				
28.6	1.125	0.059	1.250	1.77	3.16	SOMT09T308	QR0286057NSR02	2.25	3.58	6.73	QR0286086NSR02	3.38	4.72	7.87	QR0286114NSR02	4.50	5.87	9.21	QR0286143NSR02	5.63	7.01	10.16	SM35-088-60	DS-T10S	PF-0013	PP04-01
29.4	1.156	0.059	1.250	1.77	3.16		QR0294059NSR02	2.31	3.58	6.73	QR0294088NSR02	3.47	4.72	7.87	QR0294118NSR02	4.62	5.87	9.49	QR0294147NSR02	5.78	7.01	10.16				
30.2	1.187	0.059	1.250	1.77	3.16		QR0302060NSR02	2.37	3.66	6.81	QR0302090NSR02	3.56	4.84	7.99	QR0302120NSR02	4.75	6.02	9.49	QR0302151NSR02	5.94	7.20	10.35				
31.0	1.219	0.059	1.250	1.77	3.16	SOMT11T308	QR0310062NSR02	2.44	3.74	6.89	QR0310093NSR02	3.66	4.96	8.11	QR0310124NSR02	4.87	6.18	9.69	QR0310155NSR02	6.09	7.40	10.55	SM35-088-60	DS-T10S	PF-0013	PP04-01
31.8	1.250	0.066	1.250	1.77	3.16		QR0318063NSR02	2.50	3.90	7.05	QR0318095NSR02	3.75	5.16	8.31	QR0318127NSR02	5.00	6.42	9.84	QR0318159NSR02	6.25	7.68	10.83				
32.5	1.281	0.066	1.250	1.77	3.16		QR0325065NSR02	2.56	3.98	7.13	QR0325098NSR02	3.84	5.28	8.43	QR0325130NSR02	5.13	6.57	10.04	QR0325163NSR02	6.41	7.87	11.02				
33.3	1.312	0.066	1.250	1.77	3.16	SOMT11T308	QR0333067NSR02	2.62	3.98	7.13	QR0333100NSR02	3.94	5.28	8.43	QR0333133NSR02	5.25	6.67	10.04	QR0333167NSR02	6.56	7.87	11.02	SM35-088-60	DS-T10S	PF-0013	PP04-01
34.1	1.343	0.066	1.250	1.77	3.16		QR0338068NSR02	2.69	4.06	7.20	QR03381102NSR02	4.05	5.36	8.57	QR0338136NSR02	5.37	6.73	10.16	QR0338169NSR02	6.68	8.07	11.42				
34.9	1.375	0.066	1.250	1.77	3.16		QR0349070NSR02	2.75	4.13	7.28	QR0349105NSR02	4.15	5.51	8.66	QR0349140NSR02	5.50	6.89	10.39	QR0349175NSR02	6.86	8.27	11.42				
35.7	1.406	0.066	1.250	1.77	3.16	SOMT130408	QR0357071NSR02	2.81	4.21	7.37	QR0357107NSR02	4.22	5.63	8.78	QR0357143NSR02	5.62	7.05	10.59	QR0357179NSR02	7.03	8.46	11.61	SE02-82	T-15/51	PF-0013	PP04-01
36.5	1.437	0.074	1.250	1.63	3.16		QR0365073NSR02	2.87	4.37	7.52	QR0365110NSR02	4.31	5.83	8.98	QR0365146NSR02	5.75	7.28	10.79	QR0365182NSR02	7.19	8.74	11.89				
37.3	1.468	0.074	1.250	1.63	3.16		QR0373075NSR02	2.90	4.43	7.52	QR0373112NSR02	4.41	5.83	8.98	QR0373149NSR02	5.80	7.28	10.79	QR0373186NSR02	7.34	8.74	11.89				
38.1	1.500	0.074	1.250	1.63	3.16	SOMT130408	QR0381076NSR02	3.04	4.37	6.02	QR0381114NSR02	4.50	5.94	9.09	QR0381152NSR02	6.07	7.44	10.98	QR0381191NSR02	7.50	8.94	12.09	SE02-82	T-15/51	PF-0013	PP04-01
38.9	1.531	0.074	1.250	1.63	3.16		QR0389078NSR02	3.06	4.53	6.68	QR0389117NSR02	4.56	6.06	9.21	QR0389155NSR02	6.13	7.60	11.14	QR0389194NSR02	7.66	9.13	12.28				
39.7	1.562	0.074	1.250	1.63	3.16		QR0397079NSR02	3.12	4.61	7.76	QR0397119NSR02	4.69	6.18	9.33	QR0397159NSR02	6.25	7.76	11.34	QR0397198NSR02	7.81	9.33	12.48				
40.5	1.594	0.074	1.250	1.63	3.16	SOMT150510	QR0405081NSR02	3.19	4.61	7.76	QR0405122NSR02	4.78	6.18	9.33	QR0405162NSR02	6.38	7.76	11.54	QR0405202NSR02	7.97	9.33	12.48	SM50-113-20	DS-0034	PF-0015	PP04-01
41.3	1.625	0.074	1.250	1.63	3.16		QR0413083NSR02	3.25	4.69	8.33	QR0413124NSR02	4.87	6.30	9.45	QR0413165NSR02	6.50	7.91	11.54	QR0413206NSR02	8.13	9.53	12.68				
42.8	1.687	0.074	1.250	1.63	3.16		QR0428086NSR02	3.37	4.84	8.08	QR0428128NSR02	5.06	6.54	9.69	QR0428171NSR02	6.75	8.23	11.89	QR0428214NSR02	8.43	9.92	13.07				
43.7	1.719	0.084	1.500	2.36	3.16	SOMT150510	QR0437087NSR02	3.43	5.04	8.19	QR0437131NSR02	5.16	6.77	9.92	QR0437175NSR02	6.87	8.50	12.05	QR0437218NSR02	8.59	10.24	13.39	SM50-113-20	DS-0034	PF-0015	PP04-01
44.5	1.750	0.084	1.500	2.36	3.16		QR0445089NSR02	3.50	5.04	8.19	QR0445134NSR02	5.25	6.77	9.92	QR0445178NSR02	7.00	8.50	12.28	QR0445222NSR02	8.75	10.24	13.39				
45.2	1.781	0.084	1.500	2.36	3.16		QR0452090NSR02	3.56	5.12	8.27	QR0452136NSR02	5.34	6.89	10.04	QR0452181NSR02	7.13	8.66	12.28	QR0452226NSR02	8.91	10.43	13.58				
46.0	1.813	0.084	1.500	2.36	3.16	SOMT150510	QR0460092NSR02	3.63	5.20	8.35	QR0460138NSR02	5.47	7.01	10.16	QR0460183NSR02	7.25	8.82	12.48	QR0460230NSR02	9.06	10.63	13.78	SM50-113-20	DS-0034	PF-0015	PP04-01
47.6	1.875	0.084	1.500	2.36	3.16		QR0476093NSR02	3.75	5.35	8.35	QR0476143NSR02	5.61	7.21	10.39	QR0476188NSR02	7.50	9.13	12.84	QR0476237NSR02	9.37	11.02	14.17				
48.4	1.937	0.084	1.500	2.36	3.16		QR0482098NSR02	3.81	5.43	8.58	QR0482148NSR02	5.87	7.36	10.59	QR0482193NSR02	7.75	9.29	12.99	QR0482246NSR02	9.62	11.27	14.47				
50.0	1.969	0.084	1.500	2.36	3.16	SOMT150510	QR0500100NSR02	3.94	5.51	8.66	QR0500150NSR02	5.97	7.48	10.63	QR0500200NSR02	7.87	9.45	13.19								



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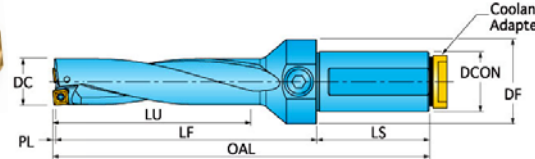
INDEXABLE DRILLS

2xD

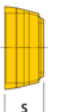
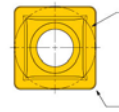
3xD

4xD

5xD



P = STEEL
M = STAINLESS STEEL
K = CAST IRON
N = NON-FERROUS



				2xD				3xD				4xD				5xD				INSERT P/N				IC	S	RE	FOR
DC	DCON	DF	LS	PART #	LU	LF	OAL	PART #	LU	LF	OAL	PART #	LU	LF	OAL	PART #	LU	LF	OAL	PART #	LU	LF	OAL				
0.500 (12.70 mm)	1.000	1.26	2.21	Q0127025N5R01	1.00	2.050	4.25	Q0127038N5R01	1.50	2.560	4.76	Q0127051N5R01	2.00	3.070	5.27	Q0127064N5R01	2.50	3.570	5.79	SCLT050204N	.197	.094	.016	K	P	M	N
0.531 (13.49 mm)	1.000	1.26	2.21	Q0135027N5R01	1.06	2.130	4.33	Q0135041N5R01	1.59	2.680	4.88	Q0135054N5R01	2.12	3.230	5.43	Q0135067N5R01	2.65	3.780	5.98	SCLT050204N-PH							
0.563 (14.30 mm)	1.000	1.26	2.21	Q0143029N5R01	1.13	2.130	4.33	Q0143043N5R01	1.69	2.680	4.88	Q0143057N5R01	2.25	3.230	5.43	Q0143072N5R01	2.81	3.790	5.99	SHGT050204N							
0.594 (15.09 mm)	1.000	1.26	2.21	Q0150030N5R01	1.19	2.240	4.44	Q0150045N5R01	1.78	2.830	5.03	Q0150060N5R01	2.38	3.430	5.63	Q0150075N5R01	2.97	4.020	6.22								
0.626 (15.90 mm)	1.000	1.26	2.21	Q0159032N5R01	1.25	2.360	4.57	Q0159048N5R01	1.88	2.990	5.20	Q0159064N5R01	2.50	3.620	5.83	Q0159080N5R01	3.13	4.250	6.46								
0.657 (16.69 mm)	1.000	1.26	2.21	Q0167033N5R01	1.31	2.440	4.65	Q0167050N5R01	1.97	3.110	5.31	Q0167067N5R01	2.63	3.780	5.98	Q0167083N5R01	3.29	4.450	6.65								
0.688 (17.48 mm)	1.000	1.26	2.21	Q0175035N5R01	1.38	2.560	4.76	Q0175053N5R01	2.06	3.270	5.47	Q0175070N5R01	2.75	3.980	6.18	Q0175087N5R01	3.44	4.690	6.89	SHGT060204N	.236	.094	.016	N	K	P	M
0.719 (18.26 mm)	1.000	1.26	2.21	Q0183037N5R01	1.44	2.560	4.76	Q0183055N5R01	2.16	3.270	5.47	Q0183073N5R01	2.88	3.980	6.18	Q0183091N5R01	3.60	4.690	6.89	SHLT060204N							
0.750 (19.05 mm)	1.000	1.26	2.21	Q0191038N5R01	1.50	2.640	4.84	Q0191057N5R01	2.25	3.390	5.59	Q0191076N5R01	3.00	4.130	6.34	Q0191095N5R01	3.75	4.880	7.09	SHLT060204N-PH							
0.781 (19.84 mm)	1.000	1.26	2.21	Q0198040N5R01	1.56	2.800	5.00	Q0198059N5R01	2.34	3.580	5.91	Q0198079N5R01	3.12	4.370	6.57	Q0198099N5R01	3.91	5.160	7.36								
0.813 (20.65 mm)	1.000	1.26	2.21	Q0206041N5R01	1.63	2.870	5.08	Q0206062N5R01	2.44	3.700	5.91	Q0206082N5R01	3.25	4.530	6.73	Q0206103N5R01	4.07	5.350	7.56								
0.843 (21.41 mm)	1.000	1.26	2.21	Q0214042N5R02	1.69	2.950	5.16	Q0214064N5R02	2.53	3.820	6.02	Q0214086N5R02	3.37	4.690	6.89	Q0214107N5R02	4.22	5.550	7.76								
0.875 (22.23 mm)	1.000	1.26	2.21	Q0222044N5R02	1.75	2.950	5.16	Q0222067N5R02	2.63	3.820	6.02	Q0222089N5R02	3.50	4.690	6.89	Q0222111N5R02	4.38	5.550	7.76								
0.906 (23.01 mm)	1.250	1.77	2.36	Q0230046N6R01	1.81	3.190	5.55	Q0230069N6R01	2.72	4.090	6.46	Q0230092N6R01	3.62	5.000	7.36	Q0230115N6R01	4.53	5.910	8.27								
0.938 (23.83 mm)	1.250	1.77	2.36	Q0238048N6R01	1.88	3.310	5.67	Q0238071N6R01	2.81	4.250	6.61	Q0238095N6R01	3.75	5.200	7.56	Q0238119N6R01	4.69	6.140	8.50	SDGT07T308N-PH	.313	.163	.031	N	K	P	M
0.969 (24.61 mm)	1.250	1.77	2.36	Q0246049N6R01	1.94	3.430	5.79	Q0246072N6R01	2.91	4.410	6.77	Q0246096N6R01	3.88	5.390	7.76	Q0246123N6R01	4.85	6.380	8.74	SPLT07T308N-PH							
0.984 (24.99 mm)	1.250	1.77	2.36	—	—	—	—	Q0250010N6R01	2.95	4.410	6.77	Q0250100N6R01	3.94	5.390	7.76	Q0250125N6R01	4.92	6.380	8.74								
1.000 (25.40 mm)	1.250	1.77	2.36	Q0254051N6R01	2.00	3.500	5.87	Q0254076N6R01	3.00	4.530	6.89	Q0254102N6R01	4.00	5.550	7.91	Q0254127N6R01	5.00	6.570	8.94								
1.031 (26.19 mm)	1.250	1.77	2.36	Q0262052N6R01	2.06	3.500	5.87	Q0262079N6R01	3.09	4.530	6.89	Q0262105N6R01	4.12	5.550	7.91	Q0262131N6R01	5.16	6.570	8.94								
1.063 (27.00 mm)	1.250	1.77	2.36	Q0270054N6R01	2.13	3.580	5.94	Q0270081N6R01	3.19	4.650	7.01	Q0270108N6R01	4.25	5.710	8.27	Q0270135N6R01	5.32	6.770	9.13								
1.094 (27.79 mm)	1.250	1.77	2.36	Q0278056N6R02	2.19	3.700	6.06	Q0278083N6R02	3.28	4.800	7.17	Q0278111N6R02	4.38	5.910	7.79	Q0278139N6R02	5.47	7.000	9.36								
1.125 (28.58 mm)	1.250	1.77	2.36	Q0286057N6R02	2.25	3.780	6.14	Q0286086N6R02	3.38	4.920	7.28	Q0286114N6R02	4.50	6.060	8.43	Q0286143N6R02	5.62	7.190	9.57								
1.125 (28.58 mm)	1.250	1.77	2.36	—	—	—	—	Q0286086N6R02	3.38	4.920	7.28	—	—	—	—	—	—	—	—								
1.156 (29.36 mm)	1.250	2.17	2.36	Q0294059N6R01	2.31	3.980	6.34	Q0294086N6R01	3.47	5.160	7.52	Q0294118N6R01	4.62	6.340	8.70	Q0294147N6R01	5.79	7.520	9.88	SHGT090408N-PH	.385	.169	.030	N	K	P	M
1.187 (30.15 mm)	1.250	2.17	2.36	Q0302060N6R01	2.37	3.980	6.34	Q0302090N6R01	3.56	5.160	7.52	Q0302120N6R01	4.75	6.340	8.80	Q0302151N6R01	5.93	7.530	9.89	SHLT090408N-PH1							
1.219 (30.96 mm)	1.250	2.17	2.36	Q0310062N6R01	2.44	4.090	6.45	Q0310093N6R01	3.66	5.310	7.67	Q0310124N6R01	4.88	6.540	8.82	Q0310159N6R01	6.25	7.940	10.31								
1.252 (31.80 mm)	1.250	2.17	2.36	Q0318063N6R01	2.50	4.170	6.53	Q0318095N6R01	3.75	5.430	7.79	Q0318127N6R01	5.00	6.690	9.05	Q0318159N6R01	6.25	7.940	10.31								
1.281 (32.54 mm)	1.250	2.17	2.36	Q0325065N6R01	2.56	4.290	6.65	Q0325098N6R01	3.84	5.590	7.95	Q0325130N6R01	5.12	6.890	9.25	Q0325163N6R01	6.40	8.190	10.55								
1.312 (33.32 mm)	1.250	2.17	2.36	Q0333067N6R01	2.62	4.290	6.65	Q0333100N6R01	3.94	5.590	7.95	Q0333133N6R01	5.25	6.890	9.25	Q0333167N6R01	6.56	8.200	10.56								
1.343 (34.11 mm)	1.250	2.17	2.36	Q0341068N6R02	2.69	4.370	6.73	Q0341102N6R02	4.03	5.710	8.07	Q0341136N6R02	5.37	6.650	9.33	Q0341171N6R02	6.71	8.390	10.75								
1.375 (34.93 mm)	1.250	2.17	2.36	Q0349070N6R02	2.75	4.490	6.85	Q0349105N6R02	4.12	5.870	8.23	Q0349140N6R02	5.50	7.240	9.60	Q0349175N6R02	6.87	8.620	10.98								
1.406 (35.71 mm)	1.250	2.17	2.36	Q0357071N6R02	2.81	4.610	6.97	Q0357107N6R02	4.22	6.020	8.38	Q0357143N6R02	5.62	7.440	9.80	Q0357179N6R02	7.03	8.850	11.21								
1.437 (36.50 mm)	1.250	2.17	2.36	Q0365073N6R01	2.87	4.720	7.08	Q0365110N6R01	4.31	6.180	8.54	Q0365146N6R01	5.75	7.640	10.00	Q0365182N6R01	7.18	9.070	11.44	SHGT110408N-PH	.453	.189	.030	N	K	P	M
1.468 (37.29 mm)	1.250	2.17	2.36	Q0373075N6R01	2.94	4.720	7.08	Q0373112N6R01	4.40	6.180	8.54	Q0373149N6R01	5.87	7.640	10.00	Q0373186N6R01	7.34	9.110	11.47	SHLT110408N-PH1							
1.500 (38.10 mm)	1.250	2.17	2.36	Q0381076N6R01	3.00	4.840	7.20	Q0381114N6R01	4.50	6.340	8.70	Q0381152N6R01	6.00	7.830	10.19	Q0381191N6R01	7.50	9.330	11.70								
1.531 (38.89 mm)	1.250	2.17	2.36	Q0389078N6R01	3.06	4.920	7.28	Q0389117N6R01	4.59	6.460	8.82	Q0389156N6R01	6.12	7.990	10.35	—	—	—	—								
1.562 (39.67 mm)	1.250	2.17	2.36	Q0397079N6R01	3.12	5.040	7.40	Q0397119N6R01	4.69	6.610	8.97	Q0397159N6R01	6.25	8.190	10.55	Q0397198N6R01	7.81	9.750	12.11								
1.594 (40.49 mm)	1.250	2.17	2.36	Q0405081N6R01	3.19	5.160	7.52	Q0405122N6R01	4.78	6.770	9.13	Q0405162N6R01	6.38	8.390	10.75	—	—	—	—								
1.625 (41.28 mm)	1.250	2.17	2.36	Q0413083N6R01	3.25	5.160	7.52	Q0413124N6R01	4.88	6.770	9.13	Q0413165N6R01	6.50	8.390	10.75	Q0413206N6R01	8.12	10.010	12.37								
1.687 (42.85 mm)	1.250	2.36	2.36	Q0428086N6R02	3.37	5.350	7.71	Q0428128N6R02	5.06	7.050	9.41	Q0428171N6R02	6.75	8.740	11.10	—	—	—	—								
1.719 (43.66 mm)	1.250	2.36	2.36	Q0437087N6R01	3.44	5.430	7.79	Q0437131N6R01	5.16	7.170	9.53	Q0437175N6R01	6.88	8.900	11.26	—	—	—	—								
1.750 (44.45 mm)	1.250	2.36	2.36	Q0445089N6R01	3.50	5.590	7.95	Q0445134N6R01	5.25	7.360	9.72	Q0445178N6R01	7.00	9.130	11.49	—	—	—	—								
1.781 (45.24 mm)	1.500	2.36	2.76	Q0452090N7R01	3.56	5.590	8.35	Q0452136N7R01	5.34	7.360	10.12	Q0452181N7R01	7.12	9.130	11.89	—	—	—	—								
1.813 (46.05 mm)	1.500	2.36	2.76	Q0460092N7R01	3.63	5.710	8.46	Q0460138N7R01	5.44	7.520	10.28	Q0460184N7R01	7.25	9.330	12.09	—	—	—	—								
1.875 (47.63 mm)	1.500	2.36	2.76	Q0476095N7R01	3.75	5.910	8.66	Q0476143N7R01	5.63	7.800	10.55	Q0476190N7R01	7.48	9.690	12.42												

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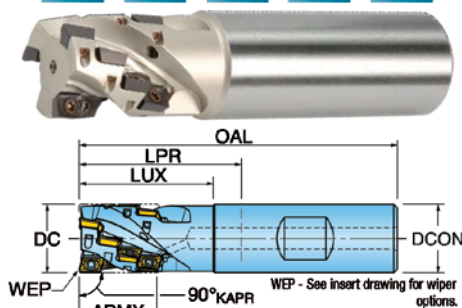


Hi-POS

MINI SIZED MILLS WITH 90° & HI-FEED INSERT OPTIONS

CONTINUED FROM PREVIOUS PAGE

90° END MILL; ALL EFFECTIVE RH HELIX

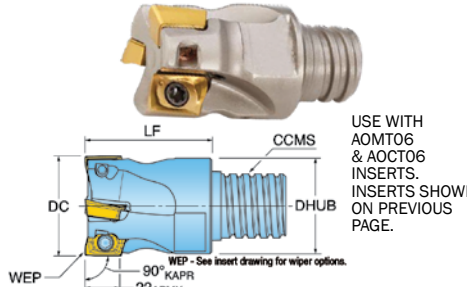


USE WITH AOMT06 & AOCT06 INSERTS.
INSERTS SHOWN ON PREVIOUS PAGE.

PART NUMBER	DC	DCON	APMX	LUX	LPR	OAL	#FL	ZNF ⁽¹⁾	ZNP ⁽²⁾
22J3D-0601179R01	0.625	0.625	0.650	1.25	1.59	3.50	2	2	4
22J3D-0701484R01	0.750	0.750	0.860	1.45	1.50	3.50	3	3	9

Notes: Total Number of Inserts = ZNF + ZNP.
Cutter body must be relieved to accept .062"R insert.
(1) ZNF=Face insert count (2) ZNP=Peripheral insert count

90° END MILL (CHIPSURFER STYLE)

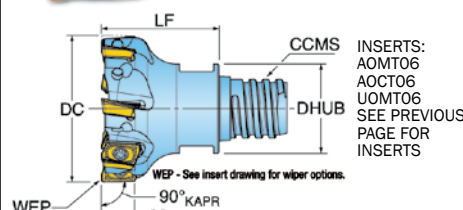


USE WITH
AOMT06
& AOCT06
INSERTS.
INSERTS SHOWN
ON PREVIOUS
PAGE.

PART NUMBER	DC	LF	ZEFF ⁽¹⁾	CCMS ⁽²⁾	DHUB
12J1D-0300616R01	0.375	0.630	2	T06	0.36
12J1D-0500618R01	0.500	0.650	2	T08	0.48
12J1D-0500618R02	0.500	0.650	3	T08	0.48
12J1D-0600818R01	0.625	0.800	4	T10	0.60
12J1D-0701018R01	0.750	1.000	5	T12	0.72
12J1D-0701018R02	0.750	1.000	3	T12	0.72
12J1D-1001218R01	1.000	1.250	7	T15	0.94

Notes: Cutter body should be relieved to accept .062"R insert.
.02" APMX for Hi-Feed insert UOMT0602TR. No lubricant on adaption.
Wrenches sold separately.
(1) Effective teeth (2) Connection code

90° MILL FOR SWISS & LIVE TOOLING



INSERTS:
AOMT06
AOCT06
UOMT06
SEE PREVIOUS
PAGE FOR
INSERTS

PART NUMBER	DC	LF	ZEFF ⁽¹⁾	CCMS ⁽²⁾	DHUB
12J1D-0700818R01	0.750	0.800	5	T08	0.48
12J1D-0700818R02	0.750	0.800	5	T10	0.60
12J1D-1000818R01	1.000	0.800	7	T10	0.72

Notes: Cutter body should be relieved to accept .062"R insert.
.02" APMX for Hi-Feed insert UOMT0602TR. No lubricant on adaption.
Wrenches sold separately. Ideal when coupled with solid ER shanks (shown above) for live spindles on swiss and lathe machines.
(1) Effective teeth (2) Connection code



Hi-POS

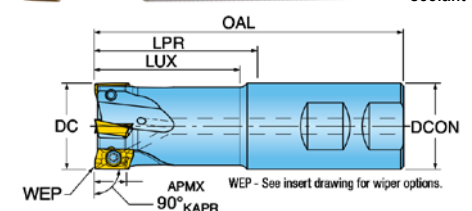
MILLING CUTTERS WITH THE HIGHEST POSITIVE MILLING GEOMETRY!

Hi-POS+ is an ideal multi-purpose mill that excels on low horsepower machines and long chipping materials.

- BOMT inserts offer 2X positive rake and 2X face clearance when compared to APKT; resulting in higher efficiency, less heat and more aggressive ramping capability

- Inserts with integrated wiper flats typically produce surface finishes between 32-63 Ra
- Cutters ported with coolant to accommodate non-ferrous, stainless steel, titanium and hi-temp alloy materials

90° END MILLS WITH WELDON SHANK



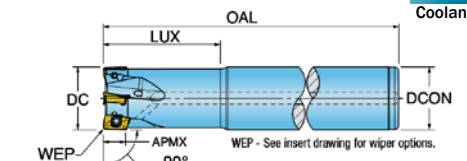
PART #	DC	LUX	LPR	OAL	ZEFF ⁽¹⁾	DCON	CSP ⁽²⁾	RPMX ⁽³⁾	INSERT
USING 9mm INSERTS: APMX=.350"									
12J1P-0501379R01	0.500	1.18	1.34	3.25	1	0.625	Yes	1.5	BOCT09 BOMT09 ZOMT09
12J1P-0601379R01	0.625	1.18	1.34	3.25	2	0.625	Yes	10.0	
12J1P-0701784R01	0.750	1.18	1.75	3.75	2	0.750	Yes	7.0	
12J1P-0701784R02	0.750	1.18	1.75	3.75	3	0.750	Yes	7.0	
12J1P-0702784R01	0.750	2.75	2.75	4.75	2	0.750	Yes	7.0	(If RE > .063 modify the body)
12J1P-0704084R01	0.750	2.75	4.00	6.00	2	0.750	Yes	—	
12J1P-0801784R01	0.875	1.18	1.75	3.75	3	0.750	Yes	5.5	
12J1P-1001784R01	1.000	1.75	1.75	3.75	3	0.750	Yes	4.4	
12J1P-1001784R02	1.000	1.75	1.75	3.75	4	0.750	Yes	4.4	(If RE > .078 modify the body)
12J1P-1201584R01	1.250	1.50	1.50	3.75	5	0.750	Yes	2.8	
12J1P-1501780R01	1.500	1.75	1.75	4.00	6	1.000	Yes	2.4	

USING 13mm INSERTS: APMX=.470"									
12J1R-0701284R01	0.750	1.22	1.25	3.25	2	0.750	Yes	6.3	BOCT13 BOMT13 ZOMT13
12J1R-0702084R01	0.750	1.97	2.00	4.00	1	0.750	Yes	6.3	
12J1R-0703084R01	0.750	2.97	3.00	5.00	2	0.750	Yes	6.3	
12J1R-1001780R01	1.000	1.72	1.75	4.00	3	1.000	Yes	7.9	
12J1R-1003780R01	1.000	3.72	3.75	6.00	3	1.000	Yes	7.9	(If RE > .078 modify the body)
12J1R-1202281R01	1.250	2.22	2.25	4.50	4	1.250	Yes	3.1	
12J1R-1204281R01	1.250	4.22	4.25	6.50	4	1.250	Yes	3.1	
12J1R-1501781R01	1.500	1.72	1.75	4.00	5	1.250	Yes	2.3	
12J1R-1502281R01	1.500	2.22	2.25	4.50	4	1.250	Yes	2.3	(If RE > .093 modify the body)
12J1R-1504281R01	1.500	4.22	4.25	6.50	4	1.250	Yes	2.3	

USING 17mm INSERTS: APMX=.630"									
12J1G-0701284R01	0.750	1.25	1.75	3.75	1	0.750	Yes	11	AOMT17 APKT17 BOCT17 BOMT17 ZOMT17
12J1G-1001580R01	1.000	1.50	1.75	4.00	2	1.000	No	5.8	
12J1G-1001580R02	1.000	1.50	1.75	4.00	2	1.000	Yes	5.8	
12J1G-1003780R01	1.000	3.50	3.75	6.00	2	1.000	Yes	5.8	
12J1G-1006080R01	1.000	5.75	6.00	8.00	2	1.000	Yes	—	(If RE > .093 modify the body)
12J1G-1008080R01	1.000	7.75	8.00	10.00	2	1.000	Yes	—	
12J1G-1201681R01	1.250	1.60	2.25	4.50	3	1.250	No	3.5	
12J1G-1201681R02	1.250	1.60	2.25	4.50	3	1.250	Yes	3.5	
12J1G-1204281R01	1.250	3.75	4.25	6.50	3	1.250	Yes	3.5	(If RE > .093 modify the body)
12J1G-1205281R01	1.250	5.25	5.75	8.00	3	1.250	Yes	—	
12J1G-1501781R01	1.250	7.25	7.75	10.00	3	1.250	Yes	—	
12J1G-1501681R01	1.500	2.25	2.25	4.50	4	1.250	Yes	2.3	
12J1G-1501681R04	1.500	2.25	2.25	4.50	3	1.250	Yes	2.3	(If RE > .093 modify the body)
12J1G-1501881R01	1.500	4.25	4.25	6.50	3	1.250	Yes	2.3	
12J1G-1505586R01	1.500	5.50	5.50	8.00	3	1.500	Yes	—	
12J1G-1507586R01	1.500	7.50	7.50	10.00	3	1.500	Yes	—	
12J1G-2001781R01	2.000	2.25	2.25	4.50	5	1.250	Yes	1.6	

(1) Effective teeth (2) Max. ramp angle (2) Coolant
*BOMT17 produces slightly larger diameter (up to .011") for cutters 1.00" and smaller.

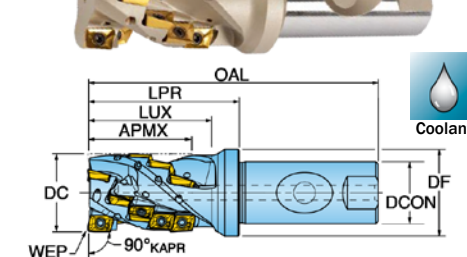
90° END MILLS (CYLINDRICAL SHANK)



PART #	DC	LUX	OAL	ZEFF ⁽¹⁾	DCON	CSP ⁽²⁾	RPMX ⁽³⁾	INSERT
USING 9mm INSERTS: APMX=.350"								
12J1P-0503056R01	0.500	1.79	5.00	1	0.625	Yes	1.5	BOCT09 BOMT09 ZOMT09
12J1P-0702057R01	0.750	1.85	7.00	3	0.750	Yes	1.5	
12J1P-1002051R01	1.000	1.85	7.00	4	1.000	Yes	1.5	
12J1P-1202259R01	1.250	2.10	8.00	5	1.250	Yes	1.5	
12J1P-1502559R01	1.500	2.30	8.50	6	1.500	Yes	1.5	

(1) Effective teeth (2) Max. ramp angle (2) Coolant
*NOTE: Relieve cutter body when using insert corner radii larger than R.062"

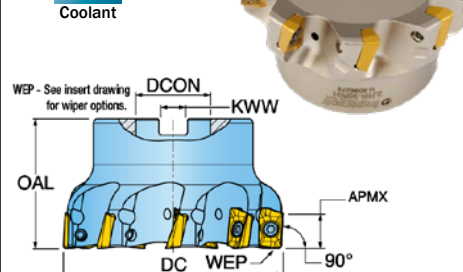
90° END MILL; ALL EFFECTIVE - EXTENDED FLUTE



PART #	DC	DCON	APMX	LUX	LPR	OAL	ZNF ⁽¹⁾	ZNP ⁽²⁾	#FL	DF	RPMX ⁽³⁾	INSERT
22J3P-1001780R01	1.000	1.000	1.35	1.75	4.00	2	6	2	4.0			BOCT09 BOMT09 ZOMT09
22J3P-1002780R01	1.000	1.000	2.260	2.40	2.75	5.00	2	12	2	1.375	4.0	
22J3P-2002782R01	1.250	1.000	1.68	2.00	2.45	4.70	3	12	3	1.400	2.5	
22J3P-1502881R01	1.500	1.250	2.00	2.36	2.80	5.00	4	20	4	1.650	2.0	
22J3G-1502781R01	1.500	1.250	2.27	2.40	2.75	5.00	3	9	3	1.750	5	AOMT17 BOCT17 ZOMT17
22J3G-1503381R01	1.500	1.250	2.82	3.00	3.30	5.50	3	12	3	1.750	5	
22J3G-2002782R01	2.000	2.000	2.25	2.70	2.75	6.00	4	12	4	—	4	
22J3G-2005082R01	2.000	2.000	4.16	4.90	5.00	8.25	4	24	4	—	4	

(1) Face insert count (2) Periphery insert (2) Max. ramp angle
NOTE: Total Number of Inserts = ZNF + ZNP

90° FACE MILLS



PART #	DC	OAL	ZEFF ⁽¹⁾	DCON	KWW	CSP ⁽²⁾	RPMX ⁽³⁾	INSERT
USING 9mm INSERTS: APMX=.350" (If RE > .062" modify the body)								
2J1P-15R01	1.500	1.57	6	0.500	0.250	Yes	2.4	BOCT09 BOMT09 ZOMT09
2J1P-20R01	2.000	1.57	7	0.750	0.312	Yes	1.3	
2J1P-25R01	2.500	1.57	8	0.750	0.312	Yes	1.0	
2J1P-30R01	3.000	1.75	9	1.000	0.375	Yes	0.7	

USING 13mm INSERTS: APMX=.470" (If RE > .078" modify the body)								
2J1R-20R01	2.000	1.57	5	0.750	0.312	Yes	1.5	BOCT13 BOMT13 ZOMT13
2J1R-20R02	2.000	1.57	6	0.750	0.312	Yes	1.5	
2J1R-25R01	2.500	1.57	6	0.750	0.312	Yes	1.1	
2J1R-30R01	3.000	1.75	9	1.000	0.375	Yes	.9	
2J1R-40R01	4.000	2.38	11	1.500	0.625	Yes	.6	AOMT17 APKT17 BOCT17 BOMT17 ZOMT17
2J1R-50R01	5.000	2.38	13	1.500	0.625	Yes	.5	

USING 17mm INSERTS: APMAX=.630" (If RE > .093" modify the body)								
2J1G-20R01	2.000	1.57	5	0.750	0.312	Yes	4.4	AOMT17 APKT17 BOCT17 BOMT17 ZOMT17
2J1G-20R02	2.000	1.57	3	0.750	0.312	Yes	4.4	
2J1G-25R01	2.500	1.57	6	0.750	0.312	Yes	3.2	
2J1G-30R01	3.000	1.75	7	1.000	0.375	Yes	2.3	
2J1G-30R02	3.000	1.75	4	1.000	0.375	Yes	2.3	AOMT17 APKT17 BOCT17 BOMT17 ZOMT17
2J1G-40R03	4.000	2.38	8	1.500	0.625	Yes	1.8	
2J1G-40R04	4.000	2.38	6	1.500	0.625	Yes	1.8	AOMT17 APKT17 BOCT17 BOMT17 ZOMT17
2J1G-50R02	5.000	2.38	9	1.500	0.625	Yes	1.4	
2J1G-60R01	6.000	2.00	10	2.000	0.750	No	.7	
2J1G-60R02	6.000	2.00	8	2.000	0.750	No	.7	
2J1G-80R01	8.000	2.37	12	2.500	1.000	No	.5	



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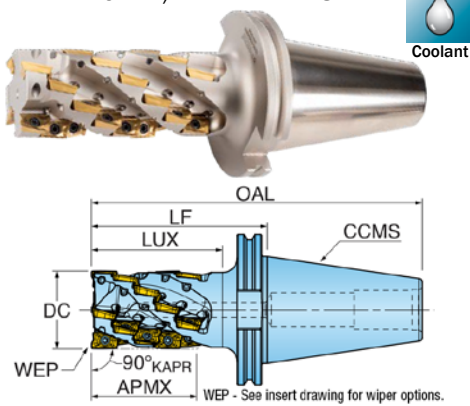
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CONTINUED FROM PREVIOUS PAGE

90° ROUGH & FINISH END MILL, CAT50 ALL-EFFECTIVE, EXTENDED FLUTE

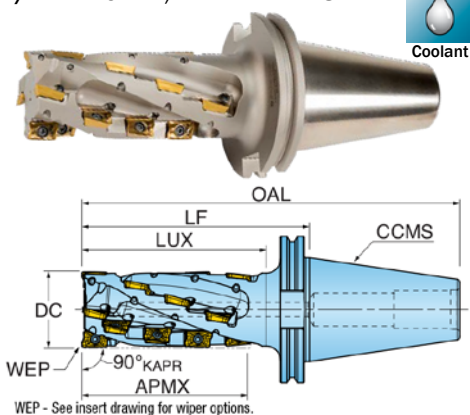


PART #	DC	CCMS	APMX	LUX	LF	OAL	ZNF ⁽¹⁾	ZNP ⁽²⁾	#FL	RPMX ⁽³⁾	INSERT
22J3G-2004548R01	2.000	CAT50	2.80	3.38	4.500	8.50	4	16	4	4	BOCT13 BOMT13 ZOMT13
22J3G-2006048R01	2.000	CAT50	4.16	4.88	6.000	10.00	4	24	4	4	BOCT13 BOMT13 ZOMT13

NOTE: Total Number of Inserts = ZNF + ZNP.

(1) Face insert count (2) Peripheral insert count (3) Max. ramp angle

90° ROUGH & FINISH END MILL, CAT50 1/2 EFFECTIVE, EXTENDED FLUTE



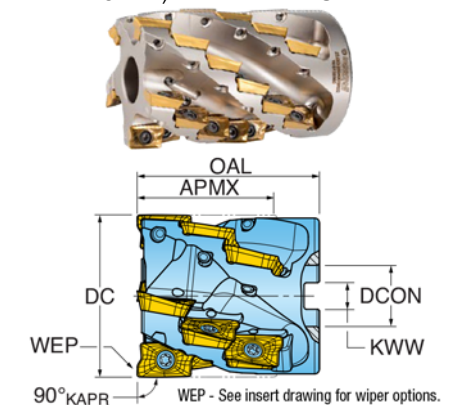
PART #	DC	CCMS	APMX	LUX	LF	OAL	ZEFF ⁽¹⁾	ZNF ⁽²⁾	ZNP ⁽²⁾	#FL	RPMX ⁽³⁾	INSERT
22J5G-2006048R01	2.000	CAT50	4.40	4.88	6.000	10.00	2	4	14	4	4	AOMT17 BOCT17 ZOMT17

NOTE: Total Number of Inserts = ZNF + ZNP.

Relieve cutter body when using insert corner radii larger than R.093"

(1) Face insert count (2) Peripheral insert count (3) Max. ramp angle

90° ROUGH & FINISH END MILL ALL EFFECTIVE, EXTENDED FLUTE

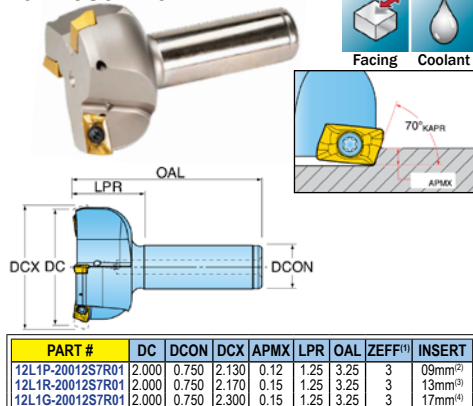


PART #	DC	DCON	APMX	OAL	ZNF ⁽¹⁾	ZNP ⁽²⁾	#FL	KWW	RPMX ⁽³⁾	INSERT
22J3G-20022D1R02	2.000	0.750	1.71	2.25	4	8	4	0.312	4	AOMT17 BOCT17 ZOMT17
22J3G-20041D3R02	2.000	1.000	2.80	4.17	4	20	4	0.375	4	AOMT17 BOCT17 ZOMT17
22J3G-25030D3R02	2.500	1.000	2.27	3.00	5	15	5	0.375	3	ZOMT17
22J3G-25040D3R02	2.500	1.000	3.35	4.00	5	25	5	0.375	3	ZOMT17
22J3G-30040D4R02	3.000	1.250	3.35	4.00	6	30	6	0.500	2	

NOTE: Total Number of Inserts = ZNF + ZNP.

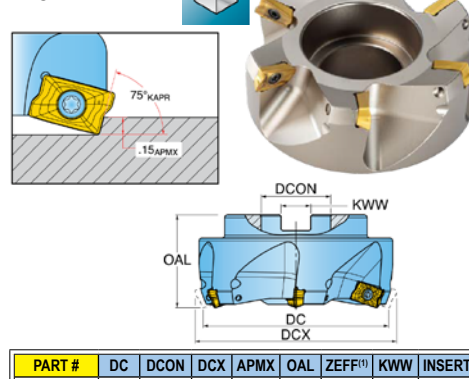
(1) Face insert count (2) Peripheral insert count (3) Max. ramp angle

70° ROUGHING END MILL



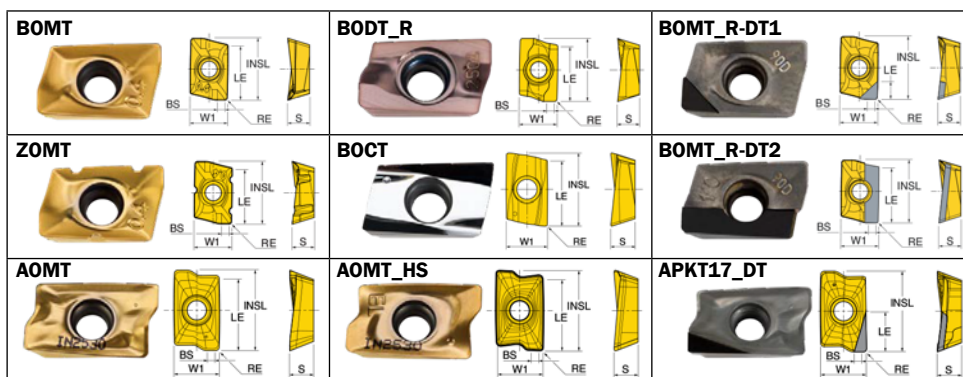
(1) ZEFF = Effective teeth (2) BOCT09, BOMT09, ZOMT09
(3) BOCT13, BOMT13, ZOMT13 (4) AOMT17, BOCT17, BOMT17, ZOMT17, ZOMT17

75° ROUGHING FACE MILL

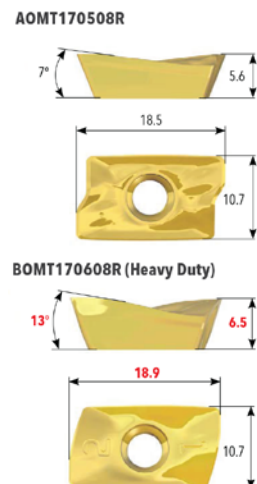


(1) ZEFF = Effective teeth (2) AOMT17, BOCT17, BOMT17, ZOMT17, ZOMT17

HiPos+ INSERTS



BOMT17 COMPARED TO AOMT17



- Higher positive helix angle (AOMT17: 7° / BOMT17: 13°) for smoother machining
- Thicker and stronger insert design (AOMT17: 5.6 mm / BOMT17: 6.5 mm)
- Compatible with the existing HiPos+ milling cutters for AOMT17

Possible cutter diameter deviations when using BOMT insert:

Tool Diameter	Deviation of Diameter Compared to AOMT1705
750" - 1.00"	+ .004" - + .011"
1.25" - 2.50"	0
3.00" - 8.00"	- .004" - -.007"

SERIES	PART NUMBER	APPLICATION	RE	BS Wiper Length	LE	INSL	W1	S	GRADES									
									IN10-30	IN10K	IN20-10	IN20-15	IN20-25	IN20-30	IN20-35	IN20-40	IN20-45	IN20-50
9mm	BOCT09T304FR-P	Grd/Pol for Al	0.015 R	-	0.350	0.417	0.260	0.146										
	BOCT09T308FR-P	Grd/Pol for Al	0.031 R	-	0.350	0.414	0.260	0.144										
	BODT09T308R	Finishing	0.031 R	0.057	0.330	0.421	0.258	0.148										
	BODT09T308R-001	Finishing	0.031 R	0.057	0.120	0.421	0.254	0.148										
	BOMT09T304R	Multi-Purpose	0.015 R	0.050	0.350	0.421	0.258	0.148										
	BOMT09T308R	Multi-Purpose	0.031 R	0.034	0.350	0.421	0.259	0.148										
	BOMT09T316R	Multi-Purpose	0.062 R	-	0.350	0.421	0.259	0.148										
	BOMT09T320R	Multi-Purpose	0.078 R	-	0.350	0.421	0.259	0.148										
	BOMT09T331R	Multi-Purpose	0.120 R	-	0.350	0.421	0.259	0.148										
	BOMT09T304R-DT1	PCD Tipped	0.015 R	0.060	0.120	0.421	0.260	0.147										
	BOMT09T304R-DT2	PCD Tipped	0.015 R	0.060	0.370	0.421	0.260	0.147										
	ZOMT09T304R	Positive-Splitters	0.015 R	0.050	0.350	0.421	0.259	0.148										
13mm	BOCT13040FR-P	Grd/Pol for Al	0.015 R	-	0.480	0.557	0.320	0.189										
	BOCT13040FR	Grd/Pol for Al	0.031 R	-	0.480	0.555	0.319	0.187										
	BODT13040R	Neutral, Precision	0.031 R	0.076	0.480	0.558	0.320	0.190										
	BODT13040R-001	Neutral, Precision	0.031 R	0.076	0.170	0.558	0.319	0.190										
	BOMT13040R	Multi-Purpose	0.015 R	0.067	0.480	0.558	0.320	0.190										
	BOMT13040R	Multi-Purpose	0.031 R	0.051	0.480	0.558	0.320	0.190										
	BOMT130416R	Multi-Purpose	0.062 R	0.019	0.480	0.561	0.320	0.190										
	BOMT130420R	Multi-Purpose	0.078 R	-	0.480	0.561	0.320	0.190										
	BOMT130424R	Multi-Purpose	0.093 R	-	0.480	0.560	0.320	0.190										
	BOMT130431R	Multi-Purpose	0.125 R	-	0.480	0.546	0.320	0.180										
	BOMT130440R	Multi-Purpose	0.156 R	-	0.480	0.538	0.320	0.183										
	BOMT130404R-DT2	PCD Tipped	0.015 R	0.055	0.480	0.557	0.320	0.190										
17mm	ZOMT130404R	Positive-Splitters	0.015 R	0.067	0.480	0.558	0.320	0.190										
	ZOMT130408R	Positive-Splitters	0.031 R	0.051	0.480	0.561	0.320	0.190										
	AOMT170504R	Multi-Purpose	0.015 R	0.100	0.633	0.728	0.421	0.218										
	AOMT170508R	Multi-Purpose	0.031 R	0.088	0.633	0.728	0.421	0.218										
	AOMT170508R-HS	SS/Hi-Temp/Ti	0.031 R	0.082	0.633	0.728	0.421	0.218										
	AOMT170510R	Multi-Purpose	0.039 R	0.078	0.633	0.728	0.421	0.218										
	AOMT170516R	Multi-Purpose	0.062 R	0.054	0.633	0.728	0.421	0.218										
	AOMT170516R-HS	SS/Hi-Temp/Ti	0.062 R	0.054	0.633	0.728	0.421	0.218										
	AOMT170524R	Multi-Purpose	0.093 R	0.035	0.633	0.728	0.421	0.218										
	AOMT170532R	Multi-Purpose	0.125 R	0.051	0.633	0.728	0.421	0.218										
	AOMT170532R-HS	SS/Hi-Temp/Ti	0.125 R	0.051	0.606	0.683	0.421	0.218										
	AOMT170540R	Multi-Purpose	0.156 R	-	0.633	0.728	0.421	0.218										
17mm	AOMT170548R	Multi-Purpose	0.187 R	-	0.633	0.728	0.421	0.218										
	AOMT170564R	Multi-Purpose	0.250 R	-	0.633	0.728	0.421	0.218										
	AOMT170564R-HS	SS/Hi-Temp/Ti	0.250 R	-	0.595	0.669	0.421	0.218										
	APKT170504R-DT	PCD Tipped	0.015 R	0.080	0.300	0.731	0.421	0.218										
	Precision		0.031 R	0.082	0.633	0.728	0.421	0.218										
	BOCT170508FR-P	Grd/Pol for Al	0.031 R	0.124	0.633	0.682	0.421	0.207										
	BOCT170516FR-P	Grd/Pol for Al	0.062 R	0.080	0.630	0.726	0.427	0.217										
	BOCT170530FR-P	Grd/Pol for Al	0.118 R	0.060	0.630	0.720	0.425	0.221										
	BOCT170532FR-P	Grd/Pol for Al	0.125 R	0.050	0.630	0.720	0.425	0.221										
	BOCT170548FR-P	Grd/Pol for Al	0.250 R	-	0.610	0.669	0.425	0.221										
	BOMT170608R	Heavy Duty	0.031 R	0.086	0.630	0.744	0.421	0.256										
	ZOMT170508FR-P	Grd/Pol for Al w/ Splitters	0.031 R	0.124	0.633	0.682	0.421	0.218										
	ZOMT170508R	Multi-Purpose Splitters	0.031 R	0.088	0.645	0.728	0.421	0.218										

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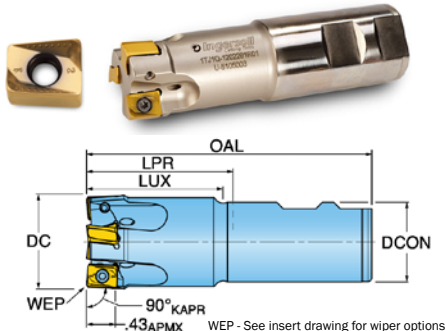
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MILLING CUTTERS USING INSERTS WITH 4 INDEXES

DOUBLE YOUR APKT STYLE GEOMETRY FROM 2 TO 4 CUTTING EDGES!



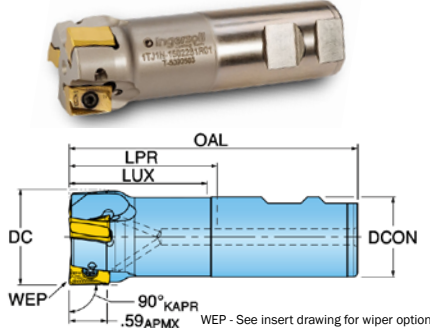
90° END MILL WITH 4 INDEXES (12mm)



PART #	DC	LUX	LPR	OAL	Z ⁽¹⁾	DCON	RMPX ⁽²⁾	INSERT
1TJ1Q-1001780R01	1.000	1.55	1.75	4.00	2	1.000	1.4	ANHU12
1TJ1Q-1001784R01	1.000	1.75	1.75	3.75	2	1.000	1.4	
1TJ1Q-1003780R01	1.000	3.55	3.75	6.00	2	1.000	1.4	
1TJ1Q-1201784R01	1.250	1.75	1.75	3.75	3	0.750	1.0	
1TJ1Q-1202281R01	1.250	2.22	2.25	4.50	3	1.250	1.0	
1TJ1Q-1204281R01	1.250	4.22	4.25	6.50	3	1.250	1.0	
1TJ1Q-1502281R01	1.500	2.25	2.25	4.50	4	1.250	0.7	
1TJ1Q-1502281R01	1.500	2.25	2.25	4.50	4	1.250	0.7	

⁽¹⁾ Z = No. of inserts ⁽²⁾ RMPX = Max. ramp angle

90° END MILL WITH 4 INDEXES (16mm)

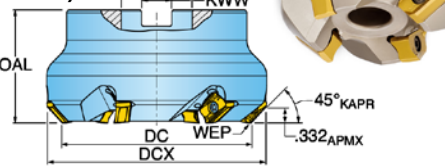


PART #	DC	LUX	LPR	OAL	Z ⁽¹⁾	DCON	RMPX ⁽²⁾	INSERT
1TJ1N-1202281R01	1.250	2.05	2.25	4.50	2	1.250	1.2	ANHU16 ZNHU16
1TJ1N-1204281R01	1.250	4.05	4.25	6.50	2	1.250	1.2	
1TJ1N-1206281R01	1.250	6.05	6.25	8.50	2	1.250	1.2	
1TJ1N-1502281R01	1.500	2.25	2.25	4.50	3	1.250	1.1	
1TJ1N-1504281R01	1.500	4.25	4.25	6.50	3	1.250	1.1	
1TJ1N-2002281R01	2.000	2.25	2.25	4.50	4	1.250	1.0	
1TJ1N-2002281R01	2.000	2.25	2.25	4.50	4	1.250	1.0	
1TJ1N-2002281R01	2.000	2.25	2.25	4.50	4	1.250	1.0	

⁽¹⁾ Z = No. of inserts ⁽²⁾ RMPX = Max. ramp angle



45° FACE MILL WITH 4 INDEXES (16mm)



PART #	DC	DCX	OAL	Z ⁽¹⁾	DCON	KWW	INSERT
TN1N-20R01	2.000	2.75	1.750	4	0.750	0.312	ANHU1607ANR
TN1N-30R01	3.000	3.75	1.750	5	1.000	0.375	
TN1N-30R02	3.000	3.75	1.750	7	1.000	0.375	
TN1N-40R01	4.000	4.75	2.375	6	1.500	0.625	
TN1N-40R02	4.000	4.75	2.375	8	1.500	0.625	
TN1N-40R02	4.000	4.75	2.375	8	1.500	0.625	

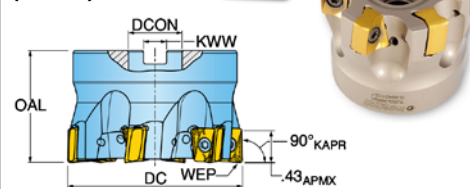
⁽¹⁾ Z = No. of inserts

INSERT FOR 45° FACE MILLS TN1N

PART #	BS ⁽¹⁾	LE	INSL	W1	S
ANHU1607ANR	0.062	0.500	0.630	0.433	0.409

⁽¹⁾ BS = Wiper length

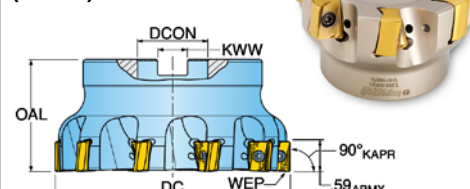
90° FACE MILL WITH 4 INDEXES (12mm)



PART #	DC	OAL	Z ⁽¹⁾	DCON	KWW	RMPX ⁽²⁾	INSERT
TJ5Q-20R01	2.000	1.57	6	0.750	0.312	.6	ANHU12
TJ6Q-20R01	2.000	1.57	3	0.750	0.312	.6	
TJ6Q-25R01	2.500	1.57	6	0.750	0.312	.4	
TJ5Q-30R01	3.000	1.75	9	1.000	0.375	.3	
TJ6Q-30R01	3.000	1.75	7	1.000	0.375	.3	
TJ5Q-40R01	4.000	2.38	11	1.500	0.625	.2	
TJ6Q-40R01	4.000	2.38	7	1.500	0.625	.2	
TJ6Q-40R01	4.000	2.38	7	1.500	0.625	.2	

⁽¹⁾ Z = No. of inserts ⁽²⁾ RMPX = Max. ramp angle

90° FACE MILL WITH 4 INDEXES (16mm)



PART #	DC	OAL	Z ⁽¹⁾	DCON	KWW	DBC	COOLANT	RMPX ⁽²⁾	INSERT
TJ5N-20R01	2.000	1.57	4	0.750	0.312	NA	Yes	1.0	ANHU16 ZNHU16
TJ6N-20R01	2.000	1.57	3	0.750	0.312	NA	Yes	1.0	
TJ5N-25R01	2.500	1.75	5	1.000	0.375	NA	Yes	.6	
TJ6N-30R01	3.000	1.75	7	1.000	0.375	NA	Yes	.5	
TJ6N-30R01	3.000	1.75	5	1.000	0.375	NA	Yes	.5	
TJ5N-40R01	4.000	2.38	8	1.500	0.625	NA	Yes	.35	
TJ6N-40R01	4.000	2.38	5	1.500	0.625	NA	Yes	.35	
TJ5N-50R01	5.000	2.38	10	1.500	0.625	NA	Yes	.25	
TJ6N-50R01	5.000	2.38	7	1.500	0.625	NA	Yes	.25	
TJ6N-60R01	6.000	2.48	11	1.500	0.625	NA	Yes	.15	ANHU16 ZNHU16
TJ6N-60R01	6.000	2.48	8	1.500	0.625	NA	Yes	.15	
TJ5N-80R01	8.000	2.48	14	2.500	1.000	4.00	No	.05	

⁽¹⁾ Z = No. of inserts ⁽²⁾ RMPX = Max. ramping angle

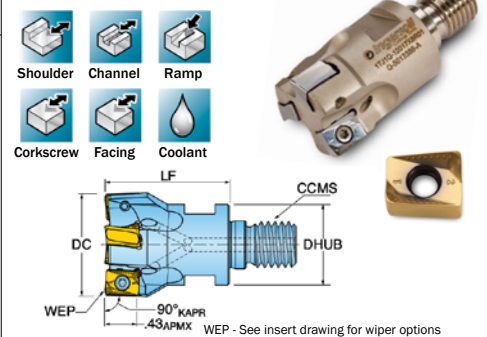
INSERTS (12mm)



PART #	Application	RE	BS ⁽¹⁾	LE	INSL	W1	S
ANHU120604R	Multi-Purpose	0.015 R	0.059	0.430	0.472	0.362	0.338
ANHU120608R	Multi-Purpose	0.031 R	0.043	0.430	0.472	0.362	0.338
ANHU120616R	Multi-Purpose	0.062 R	0.027	0.430	0.472	0.362	0.338
ANHU120608R	Multi-Purpose	0.031 R	0.043	0.430	0.472	0.362	0.338
ANHU120608FR	SS/Hi-Temps	0.031 R	0.043	0.430	0.472	0.362	0.338
ANHU120604FR-P	Non-Ferrous	0.015 R	0.059	0.430	0.472	0.362	0.338
ANHU120608FR-P	Non-Ferrous	0.031 R	0.043	0.430	0.472	0.362	0.338

⁽¹⁾ BS = Wiper length

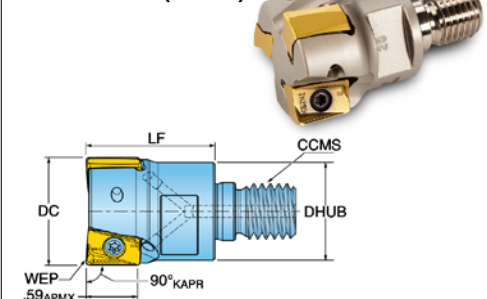
90° MODULAR END MILL WITH 4 INDEXES TOPON STYLE (12mm)



PART #	DC	LF	Z ⁽¹⁾	CCMS	DHUB	RMPX ⁽²⁾	INSERT
1TJ1Q-10015X7R01	1.000	1.50	2	M12	0.81	1.4	ANHU12
1TJ1Q-12017X8R01	1.250	1.75	3	M16	1.13	1.0	
1TJ1Q-15017X8R01	1.500	1.75	4	M16	1.13	0.7	

⁽¹⁾ Z = No. of inserts ⁽²⁾ RMPX = Max. ramp angle

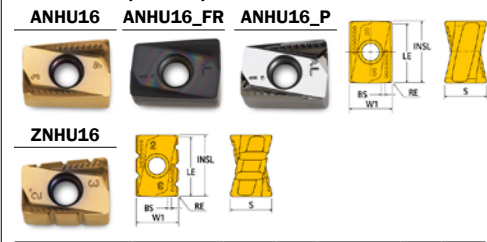
90° MODULAR END MILL WITH 4 INDEXES TOPON STYLE (16mm)



PART #	DC	LF	Z ⁽¹⁾	CCMS	DHUB	RMPX ⁽²⁾	INSERT
1TJ1N-12015X8R01	1.250	1.50	2	M16	1.13	1.2	ANHU16 ZNHU16
1TJ1N-15015X8R01	1.500	1.50	3	M16	1.13	1.1	

⁽¹⁾ Z = No. of inserts ⁽²⁾ RMPX = Max. ramp angle

INSERTS (16mm)



PART #	Application	RE	BS ⁽¹⁾	LE	INSL	W1	S
ANHU160704R	Multi-Purpose	0.015 R	0.067	0.590	0.630	0.433	0.421
ANHU160708R	Multi-Purpose	0.031 R	0.055	0.590	0.630	0.433	0.417
ANHU160716R	Multi-Purpose	0.062 R	0.023	0.590	0.630	0.433	0.413
ANHU160724R	Multi-Purpose	0.094 R	-	0.590	0.630	0.433	0.409
ANHU160708R	M-P Pressed	0.031 R	0.055	0.590	0.630	0.433	0.425
ANHU160708FR	SS/Hi-Temps	0.031 R	0.055	0.590	0.630	0.433	0.417
ANHU160704FR-P	Non-Ferrous	0.015 R	0.051	0.590	0.630	0.433	0.429
ANHU160708FR-P	Non-Ferrous	0.031 R	0.051	0.590	0.630	0.433	0.421
ZNHU160708R	Chip Splitters	0.031 R	0.055	0.590	0.630	0.433	0.417

⁽¹⁾ BS = Wiper length

MACHINING PARAMETERS & GRADE SELECTION

Material	Brinell Hardness	SFM	Feed per Insert	IN10K	IN2505	IN2510	IN2530	IN4030	IN4035	IN515	Coolant
Aluminum	6061-T6, 7075-T6, 2024	-	1500 - 8000	.004 - .009	1						Yes
Cast Iron	Gray	150 - 250	300 - 1000	.004 - .008	3	1				2	No
	Nodular		300 - 600		3	2				1	
Steel	Low Carbon 1018, 8620	150 - 250	400 - 1000	.004 - .008							No
	High Carbon F-6180, Nitralloy 52100	250 - 400	350 - 500	.004 - .007	2		1	3			
	Alloyed Steel 4140, 4340, 6150	150 - 300									
	Tool Steel A-6, D-1, D-2, P20	Up to 300	300 - 700	.004 - .008							
Stainless Steel	300 Series, 304, 316	-	300 - 550								May not be required at high speeds
	400 Series 15-5 PH, 17-4 PH	Up to 320	350 - 600	.004 - .008	3		2	4	1		
	13-8 PH	-	200 - 400								Yes
Nickel Alloys	Inconel 600, 706, 718, 903, Hastelloy, Waspalloy	-	75 - 120	.003 - .006	2		3		1		Yes
Titanium	6AL-4V	-	100 - 150	.004 - .007	3		2		1		Yes



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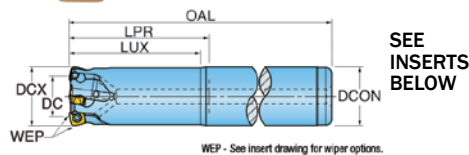
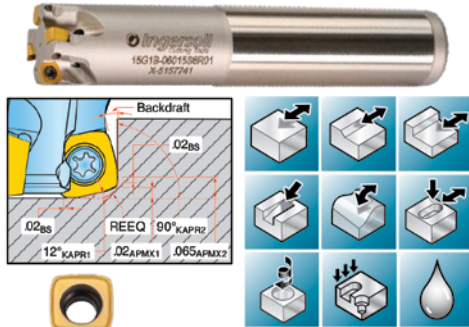
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INGERSOLL'S MOST POPULAR HI-FEED MILL SERIES

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- Each cutter family includes light, medium and heavy duty insert geometries, multiple edge configurations and our most advanced grades

- Inserts include multiple types of edge reinforcement and corner configurations
- All cutter families offer inserts with radial wiping flats that can eliminate secondary passes

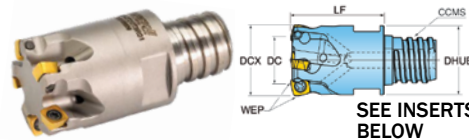
GOLDSPEED™ 04 SERIES HIGH FEED END MILLS (4MM INSERT)



PART #	DCX	DC	LUX	LPR	REEQ ⁽¹⁾	OAL	ZEFF ⁽²⁾	DCON	RMPX ⁽³⁾
15G1B-03015R8R01	0.375	0.167	1.300	1.500	0.043	2.920	2	0.375	1.80
15G1B-05017S4R01	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

- (1) PROGRAM RADIUS EQUIVALENT (2) EFFECTIVE TEETH
(3) MAX RAMP ANGLE

HIGH FEED END MILLS (4MM INSERT) CHIP • SURFER STYLE



PART #	DCX	DC	LF	ZEFF ⁽²⁾	REEQ ⁽¹⁾	DHUB	CCMS Connection	RMPX ⁽³⁾
15G1B-03006T6R01	0.375	0.167	0.669	2	0.043	0.369	T06	1.80
15G1B-05007T8R01	0.500	0.291	0.748	3	0.042	0.485	T08	4.70
15G1B-06008T8R01	0.625	0.415	0.827	4	0.042	0.605	T10	3.00
15G1B-07010T9R01	0.750	0.540	1.024	5	0.042	0.725	T12	2.20

- (1) PROGRAM RADIUS EQUIVALENT (2) EFFECTIVE TEETH
(3) MAX RAMP ANGLE

GOLDSPEED™ 04 INSERTS



PART #	APPLICATION	RE	BS Wiper Length	IC	S	GRADES
SDXS0402MPR-MM	Hi-Feed, Positive Geometry	0.021	0.022	0.04mm	0.079	IN2505
SDXS0402MPR-MR	High Feed, Heavy Duty	0.021	0.022	0.04mm	0.079	IN2530
SDXS0402MPR-MR1	Hi-Feed, Heavy-Duty Sharp Edge	0.021	0.022	0.04mm	0.079	IN2530

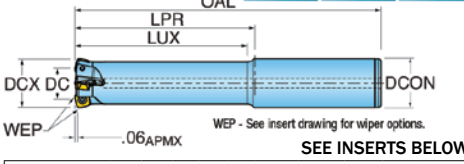
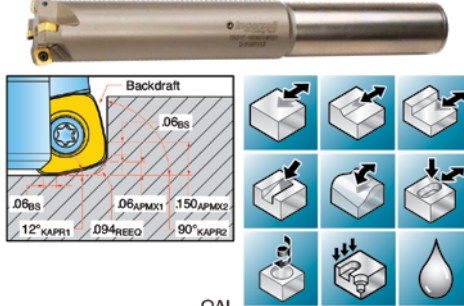
GOLDSPEED™ 04

SPARE PARTS

FOR CUTTER		
15G1B-03015R8R01		1-000-TS18034/HG-P
15G1B-05017S4R01		1-000-TS18034/HG-P
15G1B-06015S6R01		1-000-SM18-041-00
15G1B-07015S7R01		1-000-SM18-041-00
15G1B-03006T6R01		1-000-TS18034/HG-P
15G1B-05007T8R01		1-000-TS18034/HG-P
15G1B-06008T8R01		1-000-SM18-041-00
15G1B-07010T9R01		1-000-SM18-041-00
15G1B-05007X4R01		1-000-TS18034/HG-P
15G1B-06010X5R01		1-000-SM18-041-00
15G1B-07010X6R01		1-000-SM18-041-00

GOLDSPEED™ 09 SERIES HIGH FEED END MILLS (9MM INSERT)

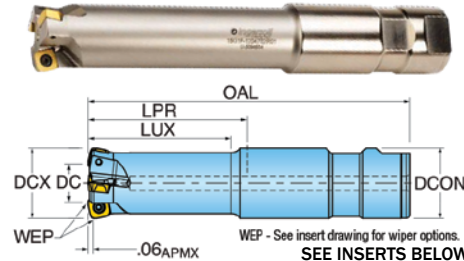
- CYLINDRICAL SHANK



PART #	DCX	DC	LUX	LPR	OAL	ZEFF(2)	REEQ(1)	KAPR	DCON	RMPX(3)
15G1F-10019S1R01	1.000	0.524	1.78	1.97	7.00	3	0.094	12.0	1.000	5.5
15G1F-10020S1R01	1.000	0.524	1.81	2.00	10.00	3	0.094	12.0	1.000	5.5
15G1F-12047S9R01	1.250	0.773	4.55	4.75	8.00	3	0.094	12.0	1.250	3.3
15G1F-12047S9R02	1.250	0.773	4.55	4.75	8.00	4	0.094	12.0	1.250	3.3
15G1F-15060S9R01	1.500	1.022	6.00	6.00	10.00	4	0.094	12.0	1.500	2.3
15G1F-15060S9R02	1.500	1.022	6.00	6.00	10.00	5	0.094	12.0	1.500	2.3

- (1) PROGRAM RADIUS EQUIVALENT (2) EFFECTIVE TEETH
(3) MAX RAMP ANGLE

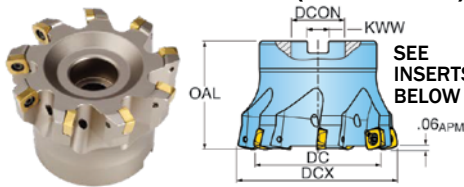
HIGH FEED END MILLS (9MM INSERT) • WELDON SHANK



PART #	DCX	DC	LUX	LPR	OAL	ZEFF ⁽²⁾	REEQ ⁽¹⁾	KAPR	DCON	RMPX ⁽³⁾
15G1F-12027E2R01	1.250	0.773	2.55	2.75	5.75	3	0.094	12°	1.250	3.3
15G1F-12027E2R02	1.250	0.773	2.55	2.75	5.75	4	0.094	12°	1.250	3.3
15G1F-12047E2R01	1.250	0.773	4.55	4.75	7.75	3	0.094	12°	1.250	3.3
15G1F-15016E2R01	1.500	1.022	1.69	1.69	6.00	4	0.094	12°	1.250	2.3
15G1F-15016E2R02	1.500	1.022	1.69	1.69	6.00	5	0.094	12°	1.250	2.3

- (1) PROGRAM RADIUS EQUIVALENT (2) EFFECTIVE TEETH
(3) MAX RAMP ANGLE

HIGH FEED FACE MILLS (9MM INSERT)



PART #	DCX	DC	OAL	ZEFF ⁽²⁾	REEQ ⁽¹⁾	DCON	KWW	RMPX ⁽³⁾
5G5F-20R01	2.000	1.521	1.97	7	0.094	0.750	0.31	1.5
5G5F-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
5G5F-30R01	3.000	2.520	2.00	7	0.094	1.000	0.38	.8

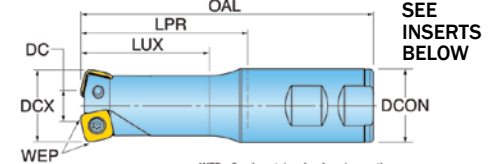
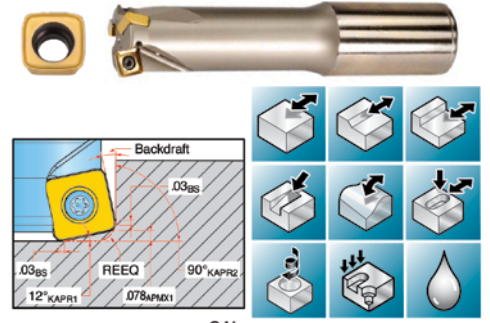
- (1) PROGRAM RADIUS EQUIVALENT (2) EFFECTIVE TEETH
(3) MAX RAMP ANGLE

GOLDSPEED™ 09 INSERTS

PART #	APPLICATION	RE	BS Wiper Length	IC	S	GRADES
SDXS0904MPR-MM	Multi-Purpose Heavy-Duty	.040	.060	.370	.158	IN2504
SDXS0904MPR-MR	Flat-Top, Sharp Edge	.040	.060	.370	.158	IN4005
SDXS0904MPR-MR1	Hardened Steels	.040	.060	.370	.158	IN2505

GOLDSPEED™ 13 SERIES HIGH FEED END MILLS (13MM INSERT)

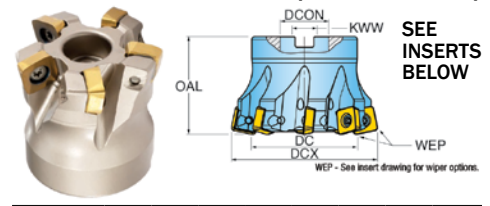
- CYLINDRICAL OR WELDON SHANK



* Use "L" for Load, "P" for Pressure, "R" for Impact, "Q" for Shock										
PART #	DCX	DC	LUX	LPR	OAL	ZEFF ⁽¹⁾	REEQ ⁽¹⁾	DCON	RMPX ⁽³⁾	
15M1P-1202781R01	1.250	0.423	2.00	2.75	5.00	2	0.125	1.250 Weldon	13.10	
15M1P-12047S9R01	1.250	0.423	4.00	4.75	8.00	2	0.125	1.250 Cylindrical	13.10	
15M1P-1502786R01	1.500	0.673	2.00	2.75	5.41	3	0.125	1.500 Weldon	7.10	
15M1P-1505386R01	1.500	0.673	5.00	5.34	8.00	3	0.125	1.500 Weldon	7.10	

- (1) PROGRAM RADIUS EQUIVALENT (2) EFFECTIVE TEETH
(3) MAX RAMP ANGLE

HIGH FEED FACE MILLS (13MM INSERT)



PART #	DCX	DC	OAL	ZEFF ⁽²⁾	REEQ ⁽¹⁾	DCON	KWW	RMPX ⁽³⁾	REEQ ⁽¹⁾
5M5P-20R01	2.000	1.170	2.000	5	0.750	0.313	3.90	0.125	
5M6P-20R01	2.000	1.170	2.000	4	0.750	0.313	3.90	0.125	
5M5P-25R01	2.500	1.670	2.000	6	0.750	0.313	2.70	0.125	
5M6P-25R01	2.500	1.670	2.000	5	0.750	0.313	2.70	0.125	
5M5P-30R01	3.000	2.170	2.000	8	1.000	0.375	1.60	0.125	
5M5P-30R02	3.000	2.170	2.000	8	1.250	0.500	1.60	0.125	
5M6P-30R01	3.000	2.170	2.000	6	1.000	0.375	1.60	0.125	
5M6P-30R02	3.000	2.170	2.000	6	1.250	0.500	1.60	0.125	
5M5P-40R01	4.000	3.170	2.500	10	1.500	0.625	1.10	0.125	
5M6P-40R01	4.000	3.170	2.500	8	1.500	0.625	1.10	0.125	
5M5P-50R01	5.000	4.170	2.500	11	1.500	0.625	0.80	0.125	
5M6P-50R01	5.000	4.170	2.500	9	1.500	0.625	0.80	0.125	

- (1) PROGRAM RADIUS EQUIVALENT (2) EFFECTIVE TEETH
(3) MAX RAMP ANGLE

GOLDSPEED™ 13 INSERTS

PART #	APPLICATION	RE	BS	IC	S	GRADES
SDSES1305MDR	Flat Face/Wiper-Facets	.125	0.030	13mm	.200	IN2504
SDMS1305MDR-PH	Pos Precision/Wiper-Facets	.125	0.030	13mm	.200	IN2504
SDSES1305MDR-001	Precision Flat Face/Wiper-Facets	.125	0.030	13mm	.200	IN2504
SDSES1305MPR	Heavy Duty-Standard	.140	0.060	13mm	.200	IN2505
SDSES1305MPR-001	Heavy Duty-Precision	.140	0.060	13mm	.200	IN2535

PART #	APPLICATION	RE	BS	IC	S	GRADES
SDXS0904MPR-MM	Multi-Purpose Heavy-Duty	.040	.060	.370	.158	IN2504
SDXS0904MPR-MR	Flat-Top, Sharp Edge	.040	.060	.370	.158	IN4005
SDXS0904MPR-MR1	Hardened Steels	.040	.060	.370	.158	IN2505

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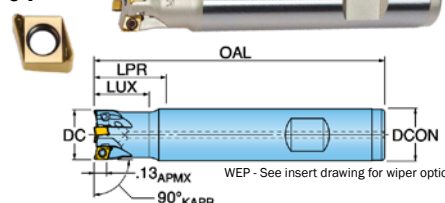
90° MILLING CUTTERS • HIGH FEED • HIGH RAMP • BACK DRAFT (LONG REACH)

FOR: • STAINLESS STEELS • STEEL • HI-TEMP ALLOYS • TITANIUM • HARD STEEL • CAST IRON • ALUMINUM

- All inserts feature 4 cutting edges
- True 90° shoulder milling capability
- Same cutter body utilizes 90°, Backdraft & Hi-Feed inserts
- Coolant holes through the tool
- Concave face design accommodates ramping, interpolation & drill-mill functions
- Integrated wiper flats produce 32-63 Ra surface finishes
- Durability with thick insert & strong screw

90° END MILLS (WITH WELDON SHANK)

SERIES 04

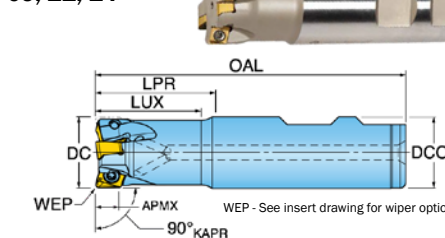


SERIES	PART #	DC	APMX	DCON	LUX	LPR	OAL	Z ⁽¹⁾	INSERT
04	1TJ1B-070078R01	0.750	0.130	1.000	1.25	2.00	4.00	5	MNHU04
	1TJ1B-10017E1R01	1.000	0.130	1.250	1.50	2.00	5.00	8	UHHU04
	1TJ1B-12020E2R01	1.250	0.130	1.500	1.75	2.50	5.50	10	
	1TJ1B-15025E2R01	1.500	0.130	1.750	2.00	3.00	6.00	12	

* Relieve cutter body when using high-feed insert UNHU...HF

90° END MILLS (WITH WELDON SHANK)

SERIES 06, 09, 11, 14



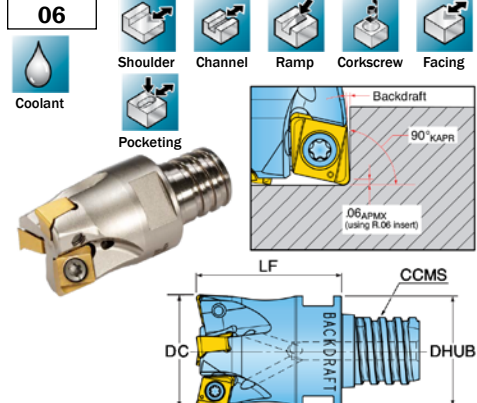
SERIES	PART #	DC	APMX	DCON	LUX	LPR	OAL	Z ⁽¹⁾	INSERT
06	1TJ1D-0600779R01	0.625	0.240	0.750	1.00	1.25	2.66	2	
	1TJ1D-0701284R01	0.750	0.240	0.875	1.125	1.25	3.25	3	
	1TJ1D-0801284R01	0.875	0.240	1.000	1.250	1.25	3.75	4	
	1TJ1D-1001780R01	1.000	0.240	1.125	1.375	1.25	4.38	5	
	1TJ1D-1201780R01	1.250	0.240	1.375	1.625	1.25	5.00	6	
	1TJ1D-1401780R01	1.500	0.240	1.625	1.875	1.25	5.62	7	
	1TJ1D-1601780R01	1.750	0.240	1.875	2.125	1.25	6.25	8	
	1TJ1D-1801780R01	2.000	0.240	2.125	2.375	1.25	6.88	9	
09	1TJ1F-1001780R01	1.000	0.320	1.125	1.375	1.75	4.00	3	MNHU09
	1TJ1F-1201780R01	1.250	0.320	1.375	1.625	1.75	4.63	4	UNHU09*
	1TJ1F-1402281R01	1.500	0.320	1.625	1.875	1.75	5.25	5	
11	1TJ1G-1001780R01	1.000	0.410	1.125	1.375	2.25	4.50	2	MNHU11
	1TJ1G-1202281R01	1.250	0.410	1.375	1.625	2.25	5.13	3	UNHU11*
14	1TJ1J-1202281R01	1.250	0.540	1.375	1.625	2.25	4.50	2	MNHU14
	1TJ1J-1402281R01	1.500	0.540	1.625	1.875	2.25	5.13	3	UNHU14*

* Relieve cutter body when using high-feed insert UNHU...HF

(1) Z = No. of inserts

BACKDRAFT END MILLS (CHIP-SURFER STYLE)

SERIES 06 • FOR LONG REACH APPLICATIONS



- Use with chip-surfer shanks.
- Designed for long reach
- Recommend .020" maximum axial stepdown on straight wall finish applications

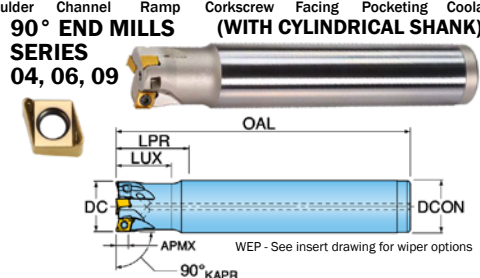
PART #	DC	LF	Z ⁽¹⁾	CCMS ⁽²⁾	DHUB	RMPX ⁽³⁾	KAPR ⁽⁴⁾
1TV1D-06208TRR01	0.625	0.80	2	T10	0.60	3.0	91
1TV1D-07010TSR02	0.750	1.00	3	T12	0.72	4.7	93
1TV1D-10012TURO2	1.000	1.25	4	T15	0.95	3.9	93

(1) Z = No. of inserts (2) CCMS = Chip-Surfer Connection Code

(3) RMPX = Max. ramping angle (4) Cutting edge angle

90° END MILLS (WITH CYLINDRICAL SHANK)

SERIES 04, 06, 09



SERIES	PART #	DC	DCON	APMX	LUX	LPR	OAL	Z ⁽¹⁾	INSERT
04	1TJ1B-0500754R01	0.500	0.500	0.130	0.75	1.25	3.50	3	
	1TJ1B-0600856R01	0.625	0.625	0.130	0.875	1.25	4.00	4	
	1TJ1B-0700857R01	0.750	0.750	0.130	1.000	1.25	4.50	5	
	1TJ1B-0801058R01	0.875	0.875	0.130	1.125	1.25	5.00	6	
06	1TJ1D-0602056R01	0.625	0.625	0.240	1.25	2.09	4.00	2	MNHU06
	1TJ1D-0703057R01	0.750	0.750	0.240	1.375	2.09	4.63	3	UNHU06
	1TJ1D-1003751R01	1.000	1.000	0.240	1.625	2.09	5.25	4	
	1TJ1D-1204259R01	1.250	1.250	0.240	1.875	2.09	5.88	5	
09	1TJ1F-1005751R01	1.000	1.000	0.320	2.00	2.90	7.00	3	MNHU09
	1TJ1F-1207759R01	1.250	1.250	0.320	2.250	2.90	7.63	4	UNHU09*
	1TJ1F-1507355R01	1.500	1.500	0.320	2.500	2.90	8.25	5	

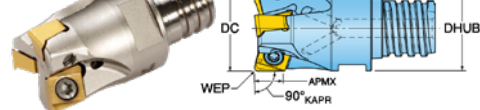
* Relieve cutter body when using high-feed insert UNHU09...HF

(1) Z = No. of inserts

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

90° END MILLS (CHIP-SURFER STYLE)

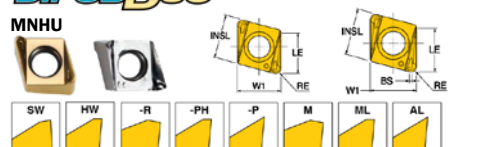
SERIES 04 & 06



TO BE USED WITH CHIP-SURFER SHANK

SERIES	PART #	DC	APMX	LF	Z	CCMS	DHUB	INSERT
04	1TJ1B-0500878R01	0.500	0.130	0.65	3	T08	0.48	
	1TJ1B-0600878R01	0.625	0.130	0.80	4	T10	0.60	
	1TJ1B-0701075R01	0.750	0.130	1.00	5	T12	0.72	
	1TJ1B-1001270R01	1.000	0.130	1.25	7	T15	0.94	
06	1TJ1D-0600878R01	0.625	0.240	0.80	2	T10	0.61	
	1TJ1D-0701075R01	0.750	0.240	1.00	3	T12	0.73	
	1TJ1D-1001270R01	1.000	0.240	1.25	4	T15	0.95	
	1TJ1D-1501270R01	1.500	0.240	1.75	5	T15	0.95	

DIPOSDUO INSERTS

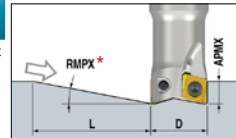


SERIES	PART #	Application	RE/C ⁽¹⁾	BS ⁽²⁾	LE	INSL ⁽³⁾	W1
04	MNHU040202R-M	Multi-Purpose	0.08 R	-	130	157	
	MNHU040204R-M	Multi-Purpose	0.15 R	-	130	157	
	MNHU040208R-M	Multi-Purpose	0.31 R	-	130	157	
	MNHU060304R	Multi-Purpose	0.15 R	-	240	260	
06	MNHU060308R	Multi-Purpose	0.31 R	-	230	260	
	MNHU060312R	Multi-Purpose	0.47 R	-	220	260	
	MNHU060316R	Multi-Purpose	0.62 R	-	210	260	
	MNHU060320R	Multi-Purpose	0.79 R	-	200	260	
	MNHU060324R-PH	SS/Hi-Temp/Ti	0.15 R	-	240	260	
	MNHU060328R-PH	SS/Hi-Temp/Ti	0.31 R	-	230	260	
	MNHU060332R-PH	SS/Hi-Temp/Ti	0.47 R	-	220	260	
	MNHU060336R-PH	SS/Hi-Temp/Ti	0.62 R	-	210	260	
	MNHU060340R-PH	SS/Hi-Temp/Ti	0.79 R	-	200	260	
	MNHU060344R-HW	SS/Hi-Temp/Ti - Face Wiper	0.15 R	0.39	240	260	
	MNHU060348R-HW	SS/Hi-Temp/Ti - Face Wiper	0.31 R	0.23	240	260	
	MNHU060352R-HW	SS/Hi-Temp/Ti - Face Wiper	0.47 R	0.43	230	260	
	MNHU060356R-HW	SS/Hi-Temp/Ti - Face Wiper	0.62 R	0.43	220	260	
	MNHU060360R-HW	SS/Hi-Temp/Ti - Face Wiper	0.79 R	0.39	210	260	
	MNHU060364R-HW	SS/Hi-Temp/Ti - Face Wiper	0.95 R	0.39	200	260	
09	MNHU090408R-M	Multi-Purpose	0.31 R	-	314	338	
	MNHU090416R-M	Multi-Purpose	0.62 R	-	314	338	
	MNHU090424R-M	Multi-Purpose	0.95 R	-	314	338	
	MNHU090432R-M	Multi-Purpose	1.25 R	-	314	338	
11	MNHU110608R-M	Multi-Purpose	0.31 R	-	410	421	
	MNHU110616R-M	Multi-Purpose	0.62 R	-	410	421	
	MNHU110624R-M	Multi-Purpose	0.95 R	-	410	421	
	MNHU110632R-M	Multi-Purpose	1.25 R	-	410	421	
14	MNHU140708R-M	Multi-Purpose	0.31 R	-	540	551	
	MNHU140716R-M	Multi-Purpose	0.62 R	-	540	551	
	MNHU140724R-M	Multi-Purpose	0.95 R	-	540	551	
	MNHU140732R-M	Multi-Purpose	1.25 R	-	540	551	

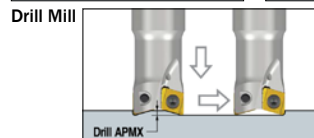
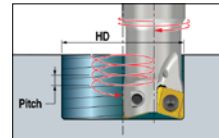
(1) RE = Corner radius C = Chamfer

(2) BS = Wiper length

Straight Ramping



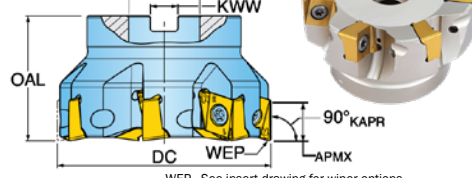
Helical Ramping



* RMPX (MAX RAMPING ANGLE) VALUES VARY PER INSERT & CUTTER. PLEASE INQUIRE.

90° FACE MILLS

SERIES 06, 09, 11, 14

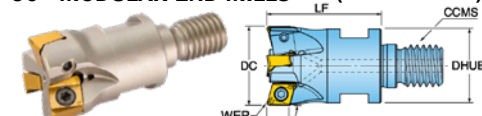


WEP - See insert drawing for wiper options

SERIES	PART #	DC	DCON	APMX	OAL	ZEFF	KWW	INSERT
06	TJ1D-15R01	1.500	0.500	0.240	1.57	6	0.250	
	TJ1D-20R01	2.000	0.750	0.240	1.57	7	0.312	MNHU06
	TJ1D-25R01	2.500	0.750	0.240	1.57	8	0.312	UNHU06
	TJ1D-30R01	3.000	1.000	0.240	1.75	9	0.375	
09	TJ6F-15R01	1.500	0.500	0.320	1.570	5	0.250	
	TJ6F-20R01	2.000	0.750	0.320	1.570	6	0.312	
	TJ6F-25R01	2.500	0.750	0.320	1.570	7	0.312	MNHU09
	TJ6F-30R01	3.000	1.000	0.320	1.750	9	0.375	UNHU09*
11	TJ6F-40R01	4.000	1.500	0.410	2.375	11	0.625	
	TJ5G-20R01	2.000	0.750	0.410	1.750	5	0.312	
	TJ6G-20R01	2.000	0.750	0.410	1.750	4	0.312	
	TJ5G-25R01	2.500	1.000	0.410	1.750	6	0.375	
14	TJ6G-25R01	2.500	1.000	0.540	1.750	4	0.375	MNHU11
	TJ5G-30R01	3.000	1.000	0.540	1.750	8	0.375	UNHU11*
	TJ6G-30R01	3.000	1.000	0.540	1.750	6	0.375	
	TJ5G-40R01	4.000	1.500	0.540	2.375	10	0.625	
14	TJ6G-40R01	4.000	1.500	0.540	2.375	7	0.625	
	TJ5J-25R01	2.000	0.750	0.540	1.750	4	0.312	
	TJ5J-20R01	2.500	1.000	0.540	1.750	6	0.375	
	TJ6J-25R01	2.500	1.000	0.540	1.750	4	0.375	MNHU14
14	TJ6J-30R01	3.000	1.000	0.540	1.750	7	0.375	UNHU14*
	TJ6J-40R01	4.000	1.500	0.540	2.375	9	0.625	
	TJ6J-40R01	4.000	1.500	0.540	2.375	6	0.625	

* Relieve cutter body when using high-feed insert UNHU...HF

90° MODULAR END MILLS (TOP-ON STYLE)



TO BE USED WITH TOP-ON SHANKS

TO BE USED WITH TOP-ON SHANKS								
SERIES	PART #	DC	APMX	LF	Z	CCMS	DHUB	INSERT
04	1TJ1B-05007XAR01	0.500	0.130	0.75	3	M06	0.46	
	1TJ1B-06008XSR01	0.625		0.88	4	M08	0.50	MNHU04
	1TJ1B-07010XER01	0.750		1.00	5	M10	0.69	UNHU04
	1TJ1B-10012XTR01	1.000		1.13	7	M12	0.81	
06	1TJ1D-07015XBR01	0.750	0.240	1.50	3	M10	0.69	
	1TJ1D-10015XTR01	1.000		1.50	4	M12	0.81	MNHU06
	1TJ1D-12017XBR01	1.250		1.75	5	M16	1.13	UNHU06
	1TJ1D-15017XBR01	1.500		1.75	6	M16	1.13	
09	1TJ1F-10015XTR01	1.000	0.320	1.50	3	M12	0.81	MNHU09
	1TJ1F-12017XBR01	1.250		1.75	4	M16	1.13	UNHU09*
	1TJ1F-15017XBR01	1.500		1.75	5	M16	1.13	
11	1TJ1G-10015XTR01	1.000	0.410	1.50	2	M12	0.81	MNHU11
	1TJ1G-12017XBR01	1.250		1.75	3	M16	1.13	UNHU11*
	1TJ1G-15017XBR01	1.500		1.75	4	M20	1.41	
14	1TJ1J-12017XBR01	1.250	0.540	1.75	2	M16	1.13	MNHU14
	1TJ1J-15017XBR01	1.500		1.75	3	M20	1.41	UNHU14*



Bass Tool & Supply, Inc.
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Email
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Fax
(713) 681-4931

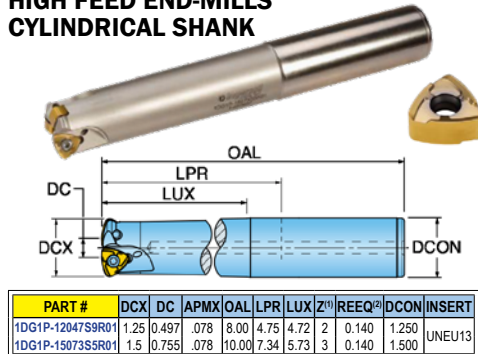
Toll Free
800-442-0042



- Three cutting edge styles
- Improved high feed milling up to .078" DOC
- Through coolant cutter bodies

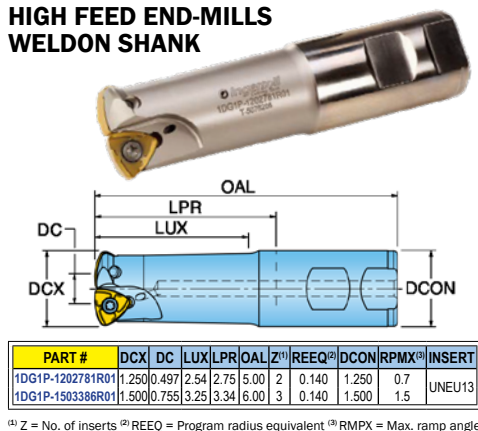


HIGH FEED END-MILLS CYLINDRICAL SHANK



⁽¹⁾ Z = No. of inserts ⁽²⁾ REEQ = Program radius equivalent

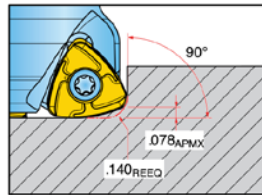
HIGH FEED END-MILLS WELDON SHANK



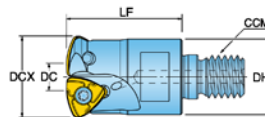
⁽¹⁾ Z = No. of inserts ⁽²⁾ REEQ = Program radius equivalent ⁽³⁾ RMPX = Max. ramp angle

HIGH FEED MILLING CUTTERS

- High rake chip former for smooth, free cutting, shearing action
- Double sided insert technology, offering 6 cutting edges for great economy



HIGH FEED MODULAR END MILLS

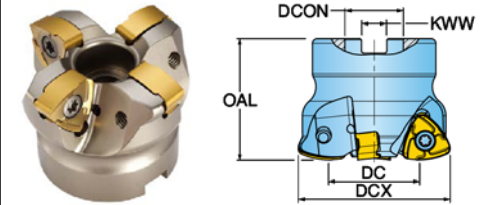


PART #	DCX	DC	APMX	LF	Z ⁽¹⁾	REEQ ⁽²⁾	DHUB	CCMS	INSERT
1DG1P-12017X8R01	1.250	0.497	.078(2mm)	1.75	2	0.140	1.14	M16	UNEU13
1DG1P-15017X8R01	1.500	0.755	.078(2mm)	1.75	3	0.140	1.14	M16	UNEU13

⁽¹⁾ Z = No. of inserts ⁽²⁾ REEQ = Program radius equivalent

Applications:
Die & Mold
Aerospace
General Purpose

HIGH FEED FACE MILLS



PART #	DCX	DC	APMX	OAL	Z ⁽¹⁾	DCON	KWW	REEQ ⁽²⁾	INSERT
DG6P-20R01	2	1.233	.078	1.57	3	0.750	0.31	0.140	UNEU13
DG5P-20R01	2	1.233	.078	1.57	4	0.750	0.31	0.140	
DG6P-25R01	2.5	1.723	.078	1.57	4	0.750	0.31	0.140	
DG5P-25R01	2.5	1.723	.078	1.57	5	0.750	0.31	0.140	
DG6P-30R01	3	2.218	.078	1.75	5	1.000	0.38	0.140	
DG6P-30R02	3	2.218	.078	2.00	5	1.250	0.50	0.140	
DG6P-40R01	4	3.212	.078	2.38	6	1.500	0.63	0.140	UNEU13
DG5P-40R01	4	3.212	.078	2.38	7	1.500	0.63	0.140	
DG6P-60R01	6	5.209	.078	2.38	7	1.500	0.63	0.140	UNEU13

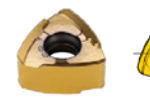
⁽¹⁾ Z = No. of inserts ⁽²⁾ REEQ = Program radius equivalent

POWER FEED 15⁺ INSERTS

UNE1307R-M



UNE1307R-MM



UNE1307R-MR



PART NUMBER	APPLICATION	IC	S	APMX	IN2505	IN2504	IN2510	IN2530	IN2035	IN7035
UNE1307R-M	Multi-Purpose ⁽¹⁾	0.484	0.275	.078(2mm)	•	•	•	•	•	•
UNE1307R-MM	Multi-Purpose - Sharp Edge ⁽²⁾	0.484	0.275	.078(2mm)	•	•	•	•	•	•
UNE1307R-MR	Heavy Duty ⁽³⁾	0.484	0.275	.078(2mm)	•	•	•	•	•	•

⁽¹⁾ Multi-Purpose
Extra strong positive rake face geometry for machining steel and various high temp alloys

⁽²⁾ Multi-Purpose - Sharp Edge
Strong, positive rake face geometry well-suited to machine steels and high temp alloys. The sharp edge promotes lower cutting forces and free shearing action.

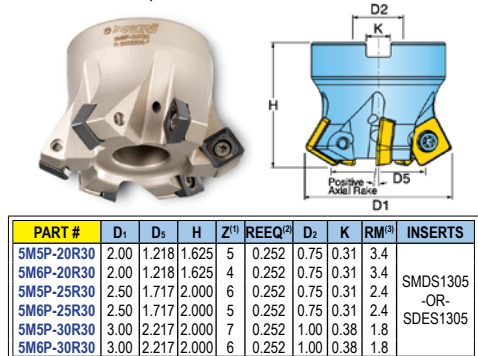
⁽³⁾ Heavy Duty
Strong edge preparation for aggressive machining in steel applications. Well suited for abusive cutting conditions.



30° BEVEL HIGH FEED CUTTERS

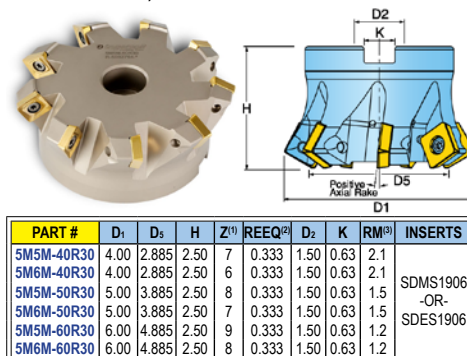


FACE MILLS, 13MM IC INSERT SERIES



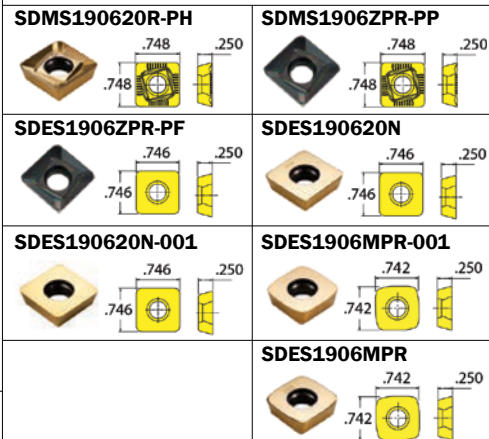
⁽¹⁾ Z = No. of inserts ⁽²⁾ REEQ = Program radius equivalent ⁽³⁾ RM = Max. ramp angle

FACE MILLS, 19MM IC INSERT SERIES



⁽¹⁾ Z = No. of inserts ⁽²⁾ REEQ = Program radius equivalent ⁽³⁾ RM = Max. ramp angle

19MM INSERTS

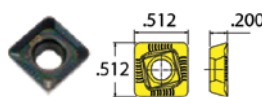


13MM INSERTS

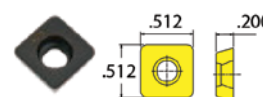
SDS130516N-PF1



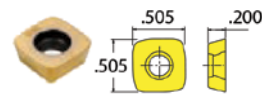
SDS130516R-PP



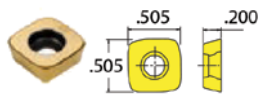
SDS130516N-PF



SDS1305MPR-001



SDS1305MPR



PART NUMBER	APPLICATION	Max Doc
SDMS130516R-PP	Hi-feed, pos precision - corner radius	0.202
SDS130516N-PF	Hi-feed, flat face - corner radius	0.202
SDS130516N-PF1	Hi-feed, flat face - precision	0.202
SDS1305MPR	Hi-feed, flat face heavy duty - standard	0.198
SDS1305MPR-001	Hi-feed, flat face heavy duty - precision	0.198

PART NUMBER	APPLICATION	Max Doc
SDMS1906ZPR-PP	Hi-feed, pos precision - wiper	0.306
SDES1906ZPR-PF	Hi-feed, flat face - wiper	0.306
SDMS190620R-PH	Hi-feed, pos precision	0.306
SDES190620N	Hi-feed, flat face - corner radius	0.305
SDS190620N-001	Hi-feed, flat face - precision	0.305
SDS1906MPR	Hi-feed, flat face heavy duty - standard	0.314
SDS1906MPR-001	Hi-feed, flat face heavy duty - precision	0.314



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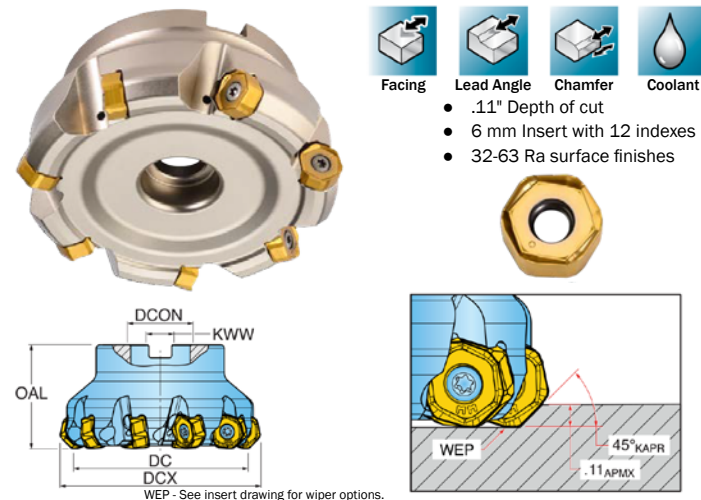
Robust 45 Face Mill with 12-Edge Economy

Ideal for
steels and iron

Features and Benefits

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

Series: HN5D, HN6D - 45° Face Mill



PART #	DC	DCX	OAL	ZEFF ⁽¹⁾	DCON	KWW	Coolant
HN5D-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
HN5D-25R01	2.500	2.88	1.750	7	1.000	0.375	Yes
HN5D-30R01	3.000	3.39	1.750	10	1.000	0.375	Yes
HN5D-35R01	3.500	3.89	1.750	12	1.000	0.375	Yes
HN5D-40R01	4.000	4.39	2.375	12	1.500	0.625	Yes
HN5D-45R01	4.500	4.89	2.375	12	1.500	0.625	Yes
HN5D-50R01	5.000	5.39	2.375	16	1.500	0.625	Yes
HN5D-55R01	5.500	5.89	2.375	16	1.500	0.625	Yes
HN5D-60R01	6.000	6.39	2.375	20	1.500	0.625	No
HN5D-65R01	6.500	6.89	2.375	20	1.500	0.625	No

⁽¹⁾ ZEFF = Effective teeth

INSERTS - 6mm

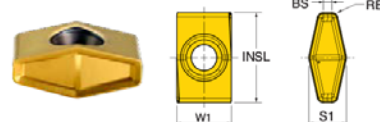
PART NUMBER	APPLICATION	BS Wiper Length	IC	S	Number of Indexes	Insert Hand	GRADES
HNGU0605ANTR-M	Medium Roughing	0.023	0.551	0.264	12	Right	IN2510 IN6537
HNGU0605ANTR-MM	Medium, Pos. Rake Angle	0.047	0.551	0.264	12	Right	IN2510 IN6537



Features and Benefits:

- 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.

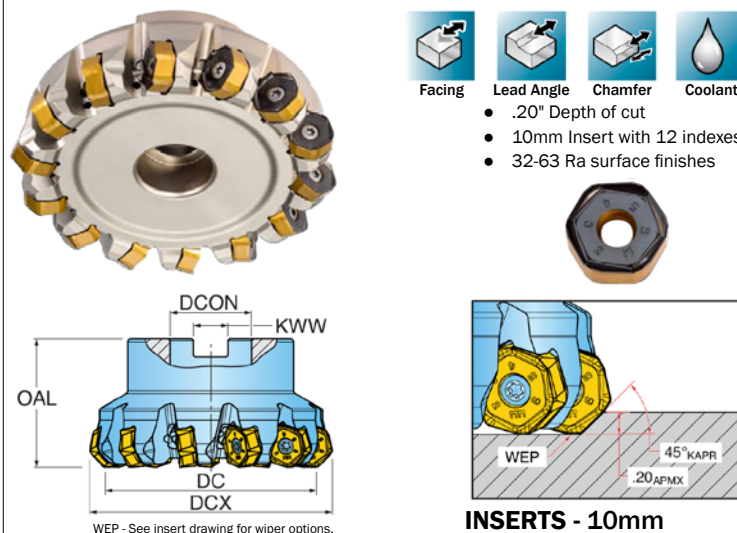
INSERTS



PART NUMBER	APPLICATION	RE	BS Wiper Length	INSL	W1	S1	Number of Indexes	Insert Hand	GRADES
LGM324R001-M	Hi-Feed, Heavy-Duty	0.040	0.060	0.610	0.373	0.256	4	Right	IN4005 IN2505 IN4030 IN2530 IN4035 IN2535
LGM324R001-ML	Hi-Feed, Heavy-Duty Keen Edge	0.040	0.060	0.610	0.373	0.256	4	Right	IN4005 IN2505 IN4030 IN2530 IN4035 IN2535

⁽¹⁾ ZEFF = Effective teeth ⁽²⁾ DBC = Bolt circle ⁽³⁾ RMPX = Ramp angle max.

Series: HN5D, HN6D - 45° Face Mill



PART #	DC	DCX	OAL	ZEFF ⁽¹⁾	DCON	KWW	DBC ⁽²⁾	Coolant
HN5G-25R01	2.500	3.03	1.750	7	1.000	0.375	-	Yes
HN5G-30R01	3.000	3.53	1.750	9	1.000	0.375	-	Yes
HN5G-35R01	3.500	3.53	1.750	6	1.000	0.375	-	Yes
HN5G-40R01	4.000	4.53	2.375	11	1.500	0.625	-	Yes
HN5G-45R01	4.500	4.53	2.375	7	1.500	0.625	-	Yes
HN5G-50R01	5.000	5.52	2.375	14	1.500	0.625	-	Yes
HN5G-55R01	5.500	5.52	2.375	8	1.500	0.625	-	Yes
HN5G-60R01	6.000	6.52	2.375	16	1.500	0.625	-	No
HN5G-65R01	6.500	6.52	2.375	10	1.500	0.625	-	No
HN5G-70R01	7.000	7.52	2.375	21	2.500	1.000	4.00"	No
HN5G-75R01	7.500	8.52	2.375	14	2.500	1.000	4.00"	No
HN5G-80R01	8.000	8.52	2.375	26	2.500	1.000	4.00"	No
HN5G-85R01	8.500	10.53	2.375	16	2.500	1.000	4.00"	No

⁽¹⁾ ZEFF = Effective teeth ⁽²⁾ DBC = Bolt circle

INSERTS - 10mm

PART NUMBER	APPLICATION	BS Wiper Length	IC	S	Number of Indexes	Insert Hand	GRADES
HNGU1007ANTR-M	Medium Roughing	0.039	0.752	0.327	12	Right	IN2510 IN6515 IN6537
HNGU1007ANTR-MM	Medium, Pos. Rake Angle	0.063	0.752	0.327	12	Right	IN2510 IN6515 IN6537
HNGU1007ANTR-HR	Heavy-Duty	0.039	0.752	0.327	12	Right	IN2510 IN6515 IN6537

Hi Feed Facemill Family With Strong Tangential Inserts and Reliable Dovetailed Insert Seating

For Materials: Steel, Stainless Steel, Hi-Temps, Titanium

Product Series Features:

- Ø2.00-4.00"
- .060" Depth of cut
- Insert with 4 indexes
- 12.7° Hi-feed rougher
- Heavy duty & super strong!
- Excellent performance & economy!

INSERTS

- RH Inserts for High Feed Milling
 - Tangential Inserts with 4 Cutting Edges
- LGM324R001-ML : GROUND
LGM324R001-M : PRESSED
- Grades:
IN4005/IN2505/IN4030
IN2530/IN4035/IN2535



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NUMAX HFA

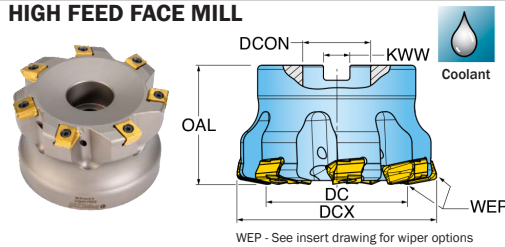
HIGH FEED CUTTERS WITH TANGENTIALLY MOUNTED INSERTS

- Double dovetailed seating design improves edge life and insert stability in the most aggressive cutting conditions
- Improved surface finishes with integrated wipers both radially and axially that can eliminate secondary passes

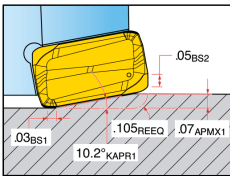
- Insert features a 10° lead angle to produce 6x the feed rates improving overall productivity
- Cutter bodies are designed with through coolant/air to improve chip evacuation in tough applications

FOR: • STEEL • STAINLESS STEELS • HI-TEMP ALLOYS • TITANIUM

HIGH FEED FACE MILL



WEP - See insert drawing for wiper options



PART #	DC	DCX	DCON	OAL	KWW	REEQ ⁽¹⁾	RMPX ⁽²⁾	COOLANT	Z ⁽³⁾	INSERT
EG5J-02R01	1.170	2.00	0.750	1.750	0.312	0.105	0.5	Yes	5	
EG6J-02R01	1.170	2.00	0.750	1.750	0.312	0.105	0.5	Yes	4	
EG5J-03R01	2.161	3.00	1.000	1.750	0.375	0.105	0.2	Yes	7	
EG5J-04R01	3.159	4.00	1.500	2.500	0.625	0.105	0.2	Yes	9	DPM324
EG6J-04R01	3.159	4.00	1.500	2.500	0.625	0.105	0.2	Yes	7	
EG6J-06R01	5.159	6.00	1.500	2.500	0.625	0.105	0.1	Yes	9	
EG6J-08R01	7.159	8.00	2.500	2.500	1.000	0.105	0.1	No	10	

⁽¹⁾ REEQ = Program radius equivalent ⁽²⁾ RMPX = Max. ramping angle
⁽³⁾ Z = No. of inserts

INSERT



DPM324L3A1-MM
INSL = .512
W1 = .472
S1 = .281
RE = .078
BS = .03



NUMAX HF

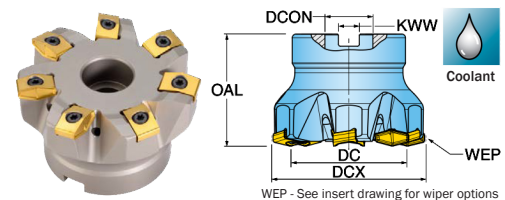
HIGH FEED CUTTERS WITH STRONG TANGENTIAL INSERTS

FOR: • STEEL • STAINLESS STEELS • HI-TEMP ALLOYS • TITANIUM

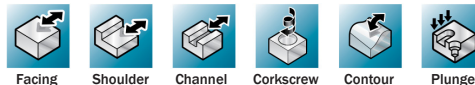
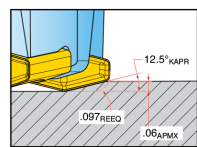
- Unique diamond shaped inserts provide the highest ramping feed-rates at the steepest ramping angles.
- Thick tangential inserts give maximum reinforcement to the cutting edge and cutter longevity.

- 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.

HIGH FEED FACE MILL



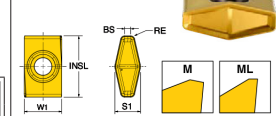
WEP - See insert drawing for wiper options



PART #	DCX	DC	DCON	OAL	KWW	KAPR	REEQ ⁽¹⁾	RMPX ⁽²⁾	Z ⁽³⁾	INSERT
8G5A-02R01	2.000	1.408	0.750	1.750	0.31	12.7	0.097	3.00	5	
8G6A-02R01	2.000	1.408	0.750	1.750	0.31	12.7	0.097	3.00	4	
8G5A-02R03	2.500	1.901	0.750	1.750	0.31	12.6	0.097	2.10	5	
8G6A-02R02	2.500	1.902	1.000	1.750	0.38	12.6	0.097	2.10	5	LGX324
8G5A-03R01	3.000	2.399	1.000	1.750	0.38	12.7	0.097	1.60	7	LGM324
8G5A-03R02	3.000	2.399	1.250	1.750	0.50	12.5	0.097	1.60	7	
8G5A-04R01	4.000	3.398	1.500	2.500	0.63	12.5	0.097	1.10	9	
8G6A-04R01	4.000	3.398	1.500	2.500	0.63	12.5	0.097	1.10	7	

⁽¹⁾ REEQ = Program radius equivalent ⁽²⁾ RMPX = Max. ramping angle
⁽³⁾ Z = No. of inserts

INSERTS

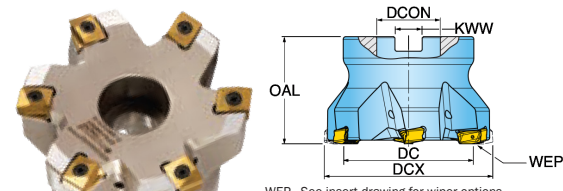


LGX324R001-M - STANDARD
LGM324R001-ML - SHARP EDGE
INSL = .610
W1 = .373
S1 = .256
BS = .060
(WIPER LENGTH)



GOLD MAX 4 FFI

HIGH FEED FINISHING FACE MILLS

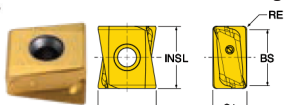


WEP - See insert drawing for wiper options

NOTE: The DFH324L205 insert can finish up to a shoulder. By limiting the depth-of-cut to a maximum .008" the insert can also be applied for finish face milling of any flat surfaces.

GOLD MAX 4 FFI

INSERTS FOR FINISHING

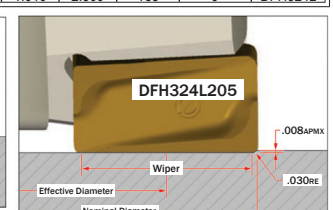
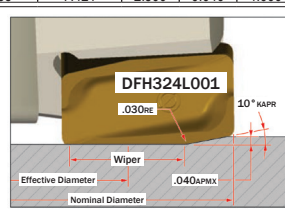


PART #	RE	INSL	S1	W1	BS
DFH324L001	4 X .030° R	.571	.315	.507	.300
DFH324L205	4 X .030° R	.571	.315	.538	.500

FOR: STEELS, CAST IRON & TITANIUM

- High precision fixed pocket cutters with high precision inserts for low Ra finishes

PART #	DCX	DC L001 insert	DC L205 insert	DCON	APMX	Bolt Circle	KWW	OAL	Coolant	Effective Inserts	Insert Series
EF6J-02R01	2.000	1.243	1.435	.750	0.040	-	0.312	1.750	Yes	4	DFH324L
EF6J-03R01	3.000	2.243	2.425	1.000	0.040	-	0.380	1.750	Yes	5	DFH324L
EF6J-04R01	4.000	3.234	3.459	1.500	0.040	-	0.630	2.500	Yes	6	DFH324L
EF6J-05R01	5.000	4.237	4.459	1.500	0.040	-	0.630	2.500	Yes	7	DFH324L
EF6J-06R01	6.000	5.234	5.423	1.500	0.040	-	0.630	2.500	Yes	9	DFH324L
EF6J-08R01	8.000	7.235	7.421	2.500	0.040	4.000	1.010	2.500	Yes	9	DFH324L

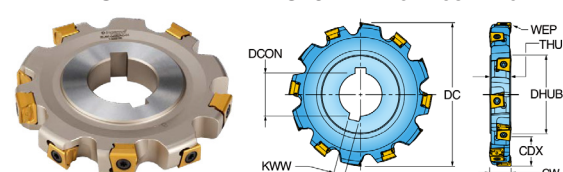


GOLD MAX 4

SLOTING CUTTERS WITH TANGENTIALLY MOUNTED INSERTS

HEAVY DUTY AXIAL DRIVE SLOTTER .625 CUTTING WIDTH

USE INSERT: DGM315



PART #	DC	CW	CDX ⁽¹⁾	DCON	DHUB ⁽²⁾	THUB ⁽³⁾	KWW	Z ⁽⁴⁾
3EJ6F-04062AG-01	4.00	0.625	0.870	1.25	2.250	0.595	0.31	10
3EJ6F-05062AH-01	5.00	0.625	1.120	1.50	2.750	0.595	0.38	12
3EJ6F-06062AH-01	6.00	0.625	1.250	1.50	3.500	0.595	0.38	14
3EJ6F-08062AK-01	8.00	0.625	2.250	2.00	3.500	0.595	0.50	16
3EJ6F-10062AK-01	10.00	0.625	3.250	2.00	3.500	0.595	0.50	18

⁽¹⁾ CDX = Max. cutting depth ⁽²⁾ Z = No. of inserts
⁽³⁾ DHUB = Hub dia. ⁽⁴⁾ THUB = Hub thickness

GOLD MAX 4

DGM315 INSERTS

DGM315 DGM315...P



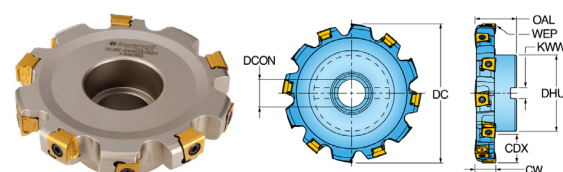
PART #	Application	RE	BS ⁽¹⁾	INSL	W1	S
DGM315-001	Multi-Purpose	.031 R	0.109	0.413	0.461	0.315
DGM315-001-P	Sharp & Polished	.031 R	0.109	0.413	0.461	0.315
DGM315-002	Multi-Purpose	.062 R	0.076	0.413	0.454	0.315
DGM315-002-P	Sharp & Polished	.062 R	0.076	0.413	0.454	0.315
DGM315-003	Multi-Purpose	.093 R	0.044	0.413	0.448	0.315
DGM315-003-P	Sharp & Polished	.093 R	0.044	0.413	0.448	0.315
DGM315-004	Multi-Purpose	.125 R	0.012	0.413	0.441	0.315
DGM315-004-P	Sharp & Polished	.125 R	0.012	0.413	0.441	0.315

⁽¹⁾ BS - Wiper length



HEAVY DUTY RADIAL DRIVE SLOTTER .625 CUTTING WIDTH

USE INSERT: DGM315



PART #	DC	CW	CDX ⁽¹⁾	DCON	DHUB ⁽²⁾	THUB ⁽³⁾	KWW	Z ⁽⁴⁾
3EJ6F-0406257R01	4.00	0.625	0.97	1.00	2.00	1.50	0.38	10
3EJ6F-0506257R01	5.00	0.625	1.10	1.00	2.75	1.50	0.38	12
3EJ6F-0606258R01	6.00	0.625	1.60	1.50	2.75	2.00	0.63	14
3EJ6F-0806258R01	8.00	0.625	2.06	1.50	3.81	2.00	0.63	16
3EJ6F-1006261R01	10.00	0.625	2.53	2.50	4.87	2.00	1.00	18

⁽¹⁾ CDX = Max. cutting depth ⁽²⁾ Z = No. of inserts
⁽³⁾ DHUB = Hub dia. ⁽⁴⁾ THUB = Hub thickness

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FORMMASTER SHEAR™

ULTRA SHEAR BUTTON CUTTERS

END-MILLS

• Ultra-reliable machining performance at high feed rates

• Anti-rotating insert clamping

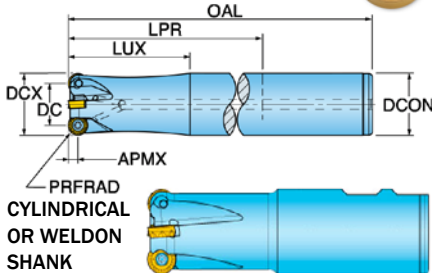
• Robust thick inserts for added strength

Applications:

Die & Mold
Aero Space
General Machining



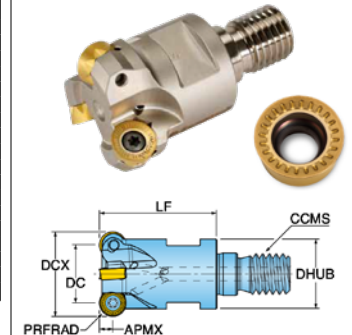
Coolant holes are available on most cutters as indicated below



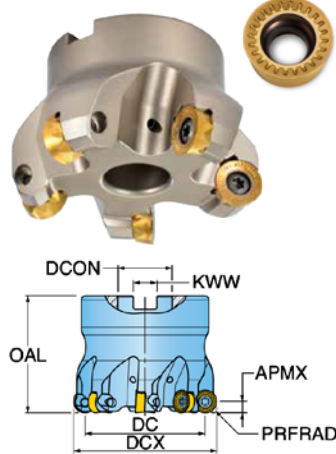
PART #	DCX	DC	APMX	OAL	LPR	LUX	DCON	PFRAD ⁽¹⁾	RMPX ⁽²⁾	Coolant	Insert Series	Z ⁽³⁾
INCH INSERTS I.C.												
15B4H-1001780RE50	1.000	0.510	0.25	4.50	1.75	1.50	1.000	Weldon	0.25	1	No	RJLT13 2
15B4H-1002031RE50	1.000	0.510	0.25	6.00	2.00	1.78	1.000	Cyl.	0.25	1	No	RJLT13 2
15B4H-1202781RE50	1.000	0.510	0.25	5.00	2.75	2.58	1.250	Weldon	0.25	9.5	Yes	RJLT13 3
15B4H-1202039RE50	1.250	0.750	0.25	6.00	2.00	1.86	1.250	Cyl.	0.25	9.5	Yes	RJLT13 3
15B4H-1502386RE50	1.500	1.000	0.25	5.00	2.34	2.15	1.500	Weldon	0.25	6.5	Yes	RJLT13 4
15B4H-1502035RE50	1.500	1.000	0.25	6.00	2.00	1.84	1.500	Cyl.	0.25	6.5	Yes	RJLT13 4
METRIC INSERTS I.C.												
15B8E-0601156R01	0.625	0.320	0.16	4.00	1.16	1.13	625	Cyl.	0.157	3.5	Yes	RJLT08 2
15B8E-0701457R01	0.750	0.438	0.16	4.50	1.43	1.40	750	Cyl.	0.157	4	Yes	RJLT08 2
15B8E-1002031R01	1.000	0.686	0.16	6.00	2.00	2.03	1.000	Cyl.	0.157	4	Yes	RJLT08 4
15B1B0240448R00	24mm	0.481	0.24	4.00	1.75	1.55	1.000	Weldon	0.236	2.5	Yes	RJLT12 2
15B1B-1001780R01	1.000	0.534	0.24	4.50	1.75	1.57	1.000	Weldon	0.236	3	Yes	RJLT12 2
15B1B-1002031R01	1.000	0.534	0.24	6.00	2.00	1.82	1.000	Cyl.	0.236	3	Yes	RJLT12 2
15B1B-1202781R01	1.250	0.780	0.24	5.00	2.75	2.55	1.250	Weldon	0.236	5	Yes	RJLT12 3
15B1B-1202039R01	1.250	0.780	0.24	6.00	2.00	1.80	1.250	Cyl.	0.236	5	Yes	RJLT12 3
15B1B-1502386R01	1.500	1.028	0.24	5.00	2.34	2.15	1.500	Weldon	0.236	6.5	Yes	RJLT12 4
15B1B-1502035R01	1.500	1.028	0.24	6.00	2.00	1.80	1.500	Cyl.	0.236	6.5	Yes	RJLT12 4

⁽¹⁾ PFRAD = Profile radius ⁽²⁾ RMPX = Max. ramp angle ⁽³⁾ Z = No. of inserts

MODULAR END-MILLS



FACE MILLS



PART #	DCX	DC	APMX	OAL	DCON	KWW	PFRAD ⁽¹⁾	RMPX ⁽²⁾	Coolant	Insert Series	Z ⁽³⁾
INCH INSERTS I.C.											
1A7H-20RE50	2.000	1.506	0.25	1.57	0.750	0.312	0.250	6	Yes	RJLT13 5	
1A7G-20R01	2.000	1.608	0.26	1.63	0.750	0.312	0.197	5	Yes	RJLT10 6	
1A7H-30RE50	3.000	2.502	0.25	1.75	1.000	0.375	0.250	4	Yes	RJLT13 7	
1A7H-40RE50	4.000	3.501	0.25	2.50	1.500	0.625	0.250	2.5	Yes	RJLT13 7	
1A7M-30RE75	3.000	2.257	0.38	1.98	1.000	0.374	0.375	7	Yes	RJLT19 5	
1A7M-40RE75	4.000	3.254	0.38	2.48	1.500	0.625	0.375	5	Yes	RJLT19 6	
1A7H-60RE75	6.000	5.252	0.38	2.38	1.500	0.625	0.375	2.5	No	RJLT19 8	
METRIC INSERTS I.C.											
1A7E-20R01	2.000	1.691	0.16	1.63	0.750	0.312	0.157	2	Yes	RJLT08 8	
1A7G-20R01	2.000	1.608	0.20	1.63	0.750	0.312	0.197	5	Yes	RJLT10 6	
1A7H-20R01	2.000	1.533	0.24	1.57	0.750	0.312	0.236	6	Yes	RJLT12 5	
1A7H-25R01	2.500	2.031	0.24	1.57	0.750	0.312	0.236	4	Yes	RJLT12 5	
1A7H-30R01	3.000	2.530	0.24	1.75	1.000	0.375	0.236	3	Yes	RJLT12 6	
1A7H-40R01	4.000	3.529	0.24	2.50	1.500	0.625	0.236	2	Yes	RJLT12 7	
1A7H-50R01	5.000	4.528	0.24	2.50	1.500	0.625	0.236	1.75	No	RJLT12 8	
1A7H-60R01	6.000	5.528	0.24	2.50	1.500	0.625	0.236	1.5	No	RJLT12 9	
1A7K-20R01	2.000	1.387	0.32	1.57	0.750	0.312	0.315	1	Yes	RJLT16 4	
1A7K-25R01	2.500	1.878	0.32	1.57	0.750	0.312	0.315	5	Yes	RJLT16 5	
1A7K-30R01	3.000	2.373	0.32	1.75	1.000	0.375	0.315	5	Yes	RJLT16 5	
1A7K-40R01	4.000	3.370	0.32	2.50	1.500	0.625	0.315	3.5	Yes	RJLT16 7	
1A7K-50R01	5.000	4.372	0.32	2.50	1.500	0.625	0.315	2.5	No	RJLT16 7	
1A7K-60R01	6.000	5.372	0.32	2.50	1.500	0.625	0.315	2	No	RJLT16 7	
1A7M-25R01	2.500	1.723	0.39	2.00	0.750	0.312	0.394	2	Yes	RJLT20 4	
1A7M-30R01	3.000	2.220	0.39	2.00	1.000	0.375	0.394	7	Yes	RJLT20 5	
1A7M-40R01	4.000	3.217	0.39	2.50	1.500	0.625	0.394	4.5	Yes	RJLT20 6	
1A7M-50R01	5.000	4.223	0.39	2.50	1.500	0.625	0.394	3.5	No	RJLT20 7	
1A7M-60R01	6.000	5.215	0.39	2.50	1.500	0.625	0.394	2.5	No	RJLT20 7	

⁽¹⁾ PFRAD = Profile radius ⁽²⁾ RMPX = Max. ramp angle ⁽³⁾ Z = No. of inserts

MODULAR END-MILLS

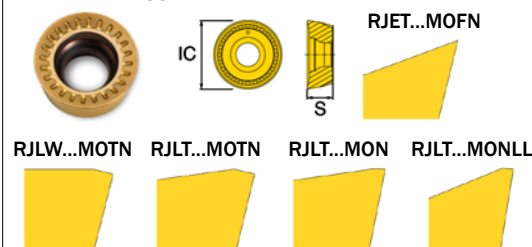
PART #	DCX	DC	APMX	LF	DHUB	Connection Code	PFRAD ⁽¹⁾	RMPX ⁽²⁾	Coolant Holes	Insert Series	Z ⁽³⁾
INCH INSERTS I.C.											
15B4H-10015X7RE50	1.000	0.510	0.25	1.50	0.82	M12	0.250	1	NO	RJLT13 2	
15B4H-12015X8RE50	1.250	0.750	0.25	1.50	1.13	M16	0.250	9.5	YES	RJLT13 3	
15B4H-15015X8RE50	1.500	1.000	0.25	1.50	1.13	M16	0.250	6.5	YES	RJLT13 3	
METRIC INSERTS I.C.											
15B8E-06090X5R01	0.628	0.320	0.16	0.91	0.50	M8	0.157	3	YES	RJLT08 2	
15B8E-07011X6R01	0.750	0.438	0.16	1.18	0.70	M10	0.157	4	YES	RJLT08 2	
15B8E-10013X7R01	1.000	0.686	0.16	2.44	0.82	M12	0.157	6	YES	RJLT08 4	
15B8E-12016X8R01	1.250	0.935	0.16	1.69	1.13	M16	0.157	5	YES	RJLT08 5	
15B8E-15015X8R01	1.500	1.185	0.16	1.50	1.13	M16	0.157	3.5	YES	RJLT08 5	
15B1A02030X6R00	20mm	10mm	0.20	1.18	0.71	M10	0.197	4	YES	RJLT10 2	
15B1A02535X7R02	25mm	15mm	0.20	1.38	0.83	M12	0.197	4	YES	RJLT10 2	
15B1A02535X7R00	25mm	15mm	0.20	1.38	0.83	M12	0.197	4	YES	RJLT10 3	
15B1A-10137X7R02	1.000	0.607	0.20	1.38	0.82	M12	0.197	4	YES	RJLT10 3	
15B1A-10137X7R02	1.000	0.607	0.20	1.38	0.82	M12	0.197	4	YES	RJLT10 3	
15B1A-12169X8R01	1.250	0.959	0.20	1.69	1.13	M16	0.197	10	YES	RJLT10 4	
15B1B02404X7R00	24mm	12.21mm	0.24	1.50	0.82	M12	0.236	2.5	YES	RJLT12 2	
15B1B-10015X7R01	1.000	0.534	0.24	1.50	0.82	M12	0.236	3	YES	RJLT12 2	
15B1B-12015X8R01	1.250	0.780	0.24	1.50	1.13	M16	0.236	5	YES	RJLT12 3	
15B1B-15015X8R01	1.500	1.028	0.24	1.50	1.13	M16	0.236	6	YES	RJLT12 3	

⁽¹⁾ PFRAD = Profile radius ⁽²⁾ RMPX = Max. ramp angle ⁽³⁾ Z = No. of inserts

FORMMASTER SHEAR™

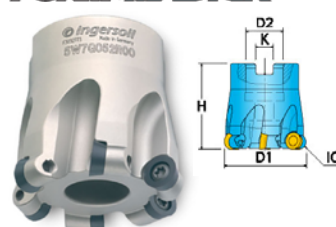
INSERTS

- Well-designed insert geometries promote longer tool life
- Wide range of insert edge preparations to address all applications
- Premium milling grades to cut all materials



Grades: IN2035, IN7035, IN2530, IN2540, IN2505, IN2504, IN10K

FORMMASTER+ BUTTON CUTTERS



PART #	D1	D2	H	ZEFP*	APX*	K	Rx*	I.C.	INSERTS
5W7G-20R01	2.0	0.75	1.625	6	5mm	0.312	4.5	10mm	RHHB32-100 & RHHW1003 & ⁽²⁾
5W7H-20R01	2.0	0.75	1.625	5	6mm	0.312	5.0	12mm	RHHB32-100 & RHHW1204 & ⁽¹⁾
5W7K-20R01	2.0	0.75	2.000	4	8mm	0.312	6.0	16mm	RHHB53-100 & ⁽²⁾
5W7K-30R01	3.0	1.00	2.000	6	8mm	0.375	5.5	16mm	RHHB53-100 & ⁽²⁾
5W7K-40R01	4.0	1.25	2.000	7	8mm	0.500	3.5	16mm	-11-
5W7K-60R01	6.0	1.50	2.500	9	8mm	0.625	2.0	16mm	-11-
5W7M-60R01	6.0	1.50	2.500	9	10mm	0.625	2.0	20mm	RHKW2006

* ZEFP = EFFECTIVE TEETH * APX = MAX DEPTH OF CUT * RX = MAX. RAMP. ANGLE

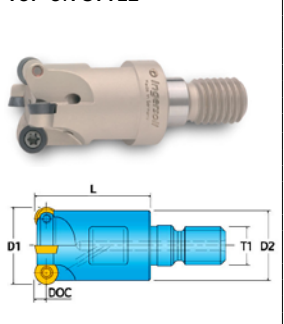
⁽¹⁾ FOR ALUMINUM: RHHV32-104F, FOR MULTI-PURPOSE: RHHB33-100 & RHHW1204

⁽²⁾ FOR ALUMINUM: RHHV32-104F, FOR MULTI-PURPOSE: RHHB32-100 & RHHW1003

⁽³⁾ FOR MULTI-PURPOSE: RHHB53-100 & RHHW1605

BUTTON END MILL

MODULAR TOP-ON STYLE



PART #	D ₁	L	Z ⁽⁴⁾	PROFILE RADIUS	T ₁	Rx ⁽⁵⁾	INSERT
INCH DIAMETER							
15B1E-07512X6R01	0.75	1.25	2	4mm	TopOn M10	8.0	RHHB21-100 & RHHW0802
15B1G-10012X7R01	1.00	1.25	3	5mm	TopOn M12	10.0	RHHB32-100 & RHHW1003 & ⁽²⁾
15B1H-10015X7R01	1.00	1.50	2	6mm	TopOn M12	10.0	RHHB33-100 & RHHW1204 & ⁽¹⁾
15B1H-12015X8R01	1.25	1.50	3	6mm	TopOn M16	5.0	RHHB33-100 & RHHW1204 & ⁽¹⁾
15B1K-12015X8R01	1.25	1.50	2	8mm	TopOn M16	5.0	RHHB53-100 & ⁽²⁾
15B1H-15015X8R01	1.50	1.50	3	6mm	TopOn M16	5.0	RHHB33-100 & RHHW1204 & ⁽¹⁾
15B1G-15012X8R01	1.50	1.25	5	5mm	TopOn M16	5.0	RHHB32-100 & RHHW1003 & ⁽²⁾
METRIC DIAMETER							
15B1E016-023-53	16mm	23mm	2	4mm	TopOn M08	40.0	RHHB21-100 & RHHW0802
15B1D020-030-54	20mm	30mm	4	3mm	TopOn M10	10.0	RHHB82-100 & RHHW0602
15B1F020-030-54	20mm	30mm	2	5mm	TopOn M10	40.0	RHHB32-100 & RHHW1003 & ⁽²⁾
15B1F025-035-V55	25mm	35mm	2	5mm	TopOn M12	17.0	RHHB32-100 & RHHW1003 & ⁽²⁾
15B1D025-035-55	25mm	35mm	5	3mm	TopOn M12	7.0	RHHB82-100 & RHHW0602
15B1F030-043-56	30mm	43mm	4	5mm	TopOn M16	11.0	RHHB32-100 & RHHW1003 & ⁽²⁾
15B1E030-043-56	30mm	43mm	5	4mm	TopOn M16	8.0	RHHB21-100 & RHHW0802
15B1K032-043-56	32mm	43mm	2	8mm	TopOn M16	40.0	RHHB53-100 & ⁽²⁾
15B1H035-043-56	35mm	43mm	3	6mm	TopOn M16	11.0	RHHB33-100 & RHHW1204 & ⁽¹⁾
15B1F035-043-56	35mm	43mm	4	6mm	TopOn M16	8.0	RHHB32-100 & RHHW1003 & ⁽²⁾
15B1H042-043-56	42mm	43mm	4	6mm	TopOn M16	8.0	RHHB33-100 & RHHW1204 & ⁽¹⁾
15B1F042-043-56	42mm	43mm	5	5mm	TopOn M16	6.0	RHHB32-100 & RHHW1003 & ⁽²⁾

BASS TOOL & SUPPLY, INC.

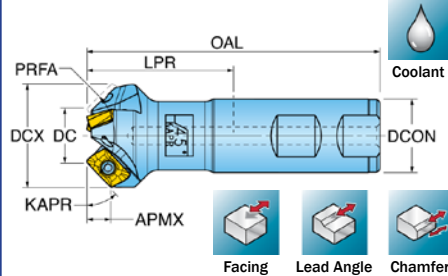
2300 Fairway Park Dr.

Houston, TX 77092



CHAMFERING CUTTERS WITH THE HIGHEST POSITIVE MILLING GEOMETRY!

HiPos+ is an ideal multi-purpose mill that excels on low horsepower machines and long chipping material. CHAMFER END MILLS: 15°, 30°, 45°, 60°, 75°

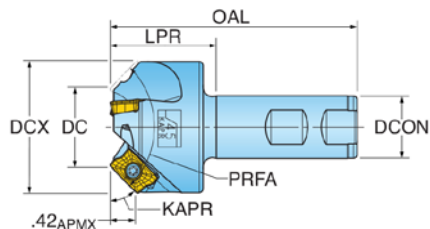


USE INSERTS: BOMT13, BOC13, ZOMT13

PART #	DC	DCX	DCON	KAPR	PRFA	APMX	LPR	OAL	Z*
12M1R-0701780R01	.750	1.220	1.00	60	60	0.40	1.75	4.0	3
12N1R-0701780R01	.750	1.408	1.00	45	90	0.32	1.75	4.0	3
12P1R-0701780R01	.750	1.546	1.00	30	120	0.22	1.75	4.0	3
12Q1R-0701780R01	.750	1.641	1.00	15	150	0.12	1.75	4.0	3
12L1R-0801780R01	.875	1.123	1.00	75	30	0.46	1.75	4.0	3

*Z = No. of teeth

45° CHAMFER END MILL (17MM INSERT)



USE INSERTS: BOMT17, AOMT17, BOC17, ZOCT17, ZOMT17

PART #	DC	DCX	DCON	KAPR	PRFA	APMX	LPR	OAL	Z*
12N1G-1201780R01	1.250	2.118	1.00	45	90	0.425	1.75	4.00	3

*Z = No. of teeth

INDEXABLE SPOTTING DRILLS WITH TRIANGLE INSERT



- Nominal Included Angles: 82° & 90°
- Insert Corner: .010" & .031" R

PART #	DCX	APMX	LPR	OAL	Z	BD	DCON	SIG	INSERT
FAK07184R02	0.782	0.420	1.50	3.50	1	0.81	0.75	82	TFL15T3□□□*
FAK08184R01	0.842	0.390	1.50	3.50	1	0.81	0.75	90	TFLP32-01-J

*□□: .03 = 0.010" R, .08 = 0.031" R

HiPos+ INSERTS

AOMT17



MULTI-PURPOSE

BOMT



BOMT13-MULTI-PURPOSE

BOMT17-HEAVY-DUTY

ZOMT



WITH SPLITTERS

AOMT17_HS



HS

FOR STAINLESS HI-TEMP & TITANIUM

BOCT

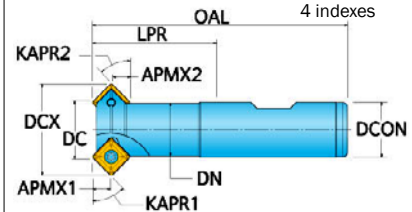
FOR ALUMINUM



SERIES	PART NUMBER	APPLICATION	RE	BS Wiper Length	LE	INS	W1	S
13mm	BOCT130404FR-P	Grd/Pol for Al	0.015	-	0.490	0.557	0.320	0.189
	BOCT130408FR-P	Grd/Pol for Al	0.031	-	0.490	0.555	0.319	0.187
	BOMT130404R	Multi-Purpose	0.015	0.067	0.490	0.558	0.320	0.190
	BOMT130408R	Multi-Purpose	0.031	0.051	0.490	0.558	0.320	0.190
	ZOMT130404R	Positive-Splitters	0.015	0.067	0.490	0.558	0.320	0.190
	ZOMT130408R	Positive-Splitters	0.031	0.051	0.490	0.561	0.320	0.190
	AOMT170504R	Multi-Purpose	0.015	0.100	0.633	0.728	0.421	0.218
	AOMT170508R	Multi-Purpose	0.031	0.088	0.633	0.728	0.421	0.218
	AOMT170516R	Multi-Purpose	0.031	0.082	0.633	0.728	0.421	0.218
	AOMT170510R	Multi-Purpose	0.039	0.078	0.633	0.728	0.421	0.218
17mm	AOMT170516R-HS	SS/Hi-Temp/Ti	0.031	0.082	0.633	0.728	0.421	0.218
	BOCT170508R-HS	Precision	0.031	0.082	0.633	0.728	0.421	0.218
	BOCT170508FR-P	Grd/Pol for Al	0.031	0.124	0.633	0.692	0.421	0.207
	BOMT170508R	Precision	0.031	0.082	0.633	0.728	0.421	0.218
	BOMT170608R	Heavy Duty	0.031	0.086	0.630	0.744	0.421	0.256
	ZOCT170508FR-P	Grd/Pol w/ Splitters	0.031	0.124	0.633	0.692	0.421	0.218
	ZOMT170508R	Multi-Purpose Splitters	0.031	0.088	0.645	0.728	0.421	0.218



CHAMFER MILL - FRONT & BACK



PART #	DC	DCX	KAPR1	APMX	KAPR2	APMX2	LPR	INSERT
15N1F-1001584R01	0.500	1.000	45	0.230	45	0.230	1.50	SHLT0903
15N1F-1201584R01	0.750	1.250	45	0.230	45	0.230	1.50	SHLT0903

CENTER CUTTING COUNTERBORES



PART #	DC	APMX	LUX	LPR	OAL	DCON	Z ⁽¹⁾	INSERTS
15S1D-0500884R01	0.500	0.220	0.50	0.88	2.85	0.75	1	SPLT06
15S1D-0601084R01	0.625	0.220	0.62	1.00	2.97	0.75	2	
15S1D-0701084R01	0.719	0.220	0.72	1.00	2.97	0.75	2	
15S1D-0701284R01	0.750	0.220	0.75	1.25	3.22	0.75	2	
15S1F-1001580R01	1.000	0.330	1.00	1.50	3.69	1.00	2	SHLT09
15S1G-0801284R01	0.813	0.400	0.75	1.25	3.25	0.75	1	SHLT11
15S1G-0801284R02	0.844	0.400	0.75	1.25	3.25	0.75	1	
15S1G-1102080R01	1.187	0.400	1.18	2.00	4.25	1.00	2	
15S1G-1202080R01	1.250	0.400	1.25	2.00	4.25	1.00	2	
15S1G-1302281R01	1.375	0.400	1.38	2.25	4.50	1.25	2	SHLT14
15S1G-1502281R01	1.500	0.400	1.50	2.25	4.50	1.25	2	
15S1J-1602381R01	1.625	0.530	1.63	2.38	4.63	1.25	2	
15S1J-1702681R01	1.750	0.530	1.75	2.62	4.82	1.25	2	
15S1J-2003081R01	2.000	0.530	2.00	3.00	5.61	1.25	2	

(1) Z = No. of inserts

QUADBORE™ INSERTS



PART #	I.C.	S	RE	Number of Indexes
SPLT060204R	0.243	0.104	0.15	2
SDLT07T308N	0.313	0.141	0.31	4
SHLT090408N	0.372	0.196	0.31	4
SHLT110408N	0.434	0.196	0.31	4
SHLT140508TN	0.560	0.229	0.31	4