



GLOBALLY RENOWNED

DIE & MOLD END MILLS

AMERICAN

MADE

FOR HIGH FEED RATE FINISHING OF FERROUS MATERIALS





FEATURES & BENEFITS

These tools are ideal for contour machining of mold and die cavities. Premium AITiN-X Nano coating protects the tool from tool steel and hardened materials, while a larger core design adds stability, rigidity and reduces run out. The high strength flutes were engineered for any difficult to machine material, including hardened tool steels, stainless steels, and high temp alloys. Running at higher speeds and feeds with vibration dampening geometry, our Die and Mold cutters can eliminate the need for expensive hand finishing operations.

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SERIES: DMX

For high feed rate finishing of high hardness ferrous materials to maximize productivity and surface finish while roughing, slotting, pocketing, contouring and finishing; wet or dry; mold & tools steels, alloy steels and high hardness materials.



Square end option to create sharp corners in finishing operations



Coated for heat resistance, wear resistance and increased lubricity



Two high strength flute design improves chip formation and evacuation for increased feed rates



30° constant helix provides added rigidity to the flutes for cutting hardened materials



Corner radius option protects corners in roughing operations and difficult to machine materials by preventing corner chipping and tool failure



Ball end option for high performance contour milling in finishing operations



For high feed rate finishing of

Premium micro-grain carbide substrate resists chipping, tool deflection, and has a high transverse rupture strength for greater feeds and speeds



Large core design for increased stability; higher speeds & feeds; and reduced tool deflection

Eccentric relief for enhanced edge strength along the flutes

TIP & END





SHANK & LENGTH















MATERIAL





RESULTS

Removing material is only part of the battle, to be truly effective, a Die & Mold cutter must speed up slow finishing and contouring operations. The option to use wet or dry, in roughing and finishing, will make your setup time one of the easiest parts of your day. Our Die and

Mold cutters will leave your finishing operations, finished in record time. These tools have incredible longevity and versatility, making them a staple in most tools rooms and vending machines.

Series DMX: Micro-Grain Carbide, 2 Flutes, 30° Constant Helix, AlTiN/Si3N4 Coated Subseries: DM2SS, DM2SR, DM2SL, DM2CS, DM2CR, DM2CL, DM2BS, DM2BR, DM2BL Configuration: Varying Diameters; Stub, Regular & Long Lengths; 30° Constant Helix; Square End, Corner Radius & Ball End

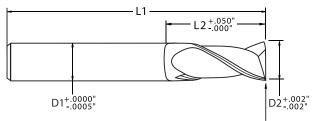


SERIES DMX - CARBIDE, 2 FLUTE, 30° CONSTANT HELIX

NEW LEVELS OF PERFORMANCE

With an AITiN/Si3N4 coating for added lubricity and heat resistance, these tools reach new levels of performance and incredible tool longevity. These end mills deliver, beyond expectations.

- Square end option to create sharp corners in finishing operations
- · Coated for heat resistance, wear resistance and increased lubricity
- Two high strength flute design improves chip formation and evacuation for increased feed rates
- For high feed rate finishing of high hardness ferrous materials



SQUARE END

D110S

DM2-1626-SQ

To order a corner radius, use code "CR" & actual radius in the part number. For example, a standard AX-203 would be ordered as AX-203-CR-015, with "015" being the radius.

TIP & END













SFRIES DM2SS - SQUARE END. STUB I ENGTH

	0 = 1 11 = 0	2771200	0 000	****	, 0,00		'			SQ D001S SQ D002S SQ D003S SQ D004S SQ D005S
	DIAN	ANK IETER ^{D1)}	CUTTER DIAMETER (D2)		FLUTE LENGTH (L2)		OVERALL LENGTH (L1)		SHANK	
	1/8	0.125	1/8	0.125	1/4	0.250	2	2.000	DM2-0204-SQ	D001S
	3/16	0.188	3/16	0.188	5/16	0.313	2 1/2	2.500	DM2-0305-SQ	D002S
	1/4	0.250	1/4	0.250	3/8	0.375	3	3.000	DM2-0406-SQ	D003S
	5/16	0.313	5/16	0.313	7/16	0.438	3	3.000	DM2-0507-SQ	D004S
Ī	3/8	0.375	3/8	0.375	1/2	0.500	3 1/2	3.500	DM2-0608-SQ	D005S
Ī	1/2	0.500	1/2	0.500	5/8	0.625	3 1/2	3.500	DM2-0810-S0	D006S

SERIES DM2SR - SQUARE END, REGULAR LENGTH

1.000

DIA	ANK METER (D1)	CUTTER DIAMETER (02)		FLUTE LENGTH (12)		OVERALL LENGTH		PLAIN SHANK PART# EDP#	
1/8	0.125	1/8	0.125	5/8	0.625	2 1/2	2.500	DM2-0210-SQ	D101S
3/16	0.188	3/16	0.188	5/8	0.625	2 1/2	2.500	DM2-0310-SQ	D102S
1/4	0.250	1/4	0.250	7/8	0.875	2 1/2	2.500	DM2-0414-SQ	D103S
5/16	0.313	5/16	0.313	7/8	0.875	2 1/2	2.500	DM2-0514-SQ	D104S
3/8	0.375	3/8	0.375	1 1/8	1.125	3	3.000	DM2-0618-SQ	D105S
7/16	0.438	7/16	0.438	1 1/8	1.125	3	3.000	DM2-0718-SQ	D106S
1/2	0.500	1/2	0.500	13/8	1.375	3 1/2	3.500	DM2-0822-SQ	D107S
5/8	0.625	5/8	0.625	13/8	1.375	3 1/2	3.500	DM2-1022-SQ	D108S
3/4	0.750	3/4	0.750	1 5/8	1.625	4	4.000	DM2-1226-SQ	D109S

15/8



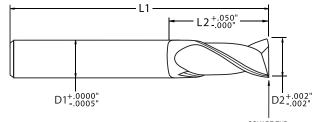
DIE & MOLD CUTTERS

SERIES DMX - CARBIDE, 2 FLUTE, 30° CONSTANT HELIX

CONSIDER IMPORTANT FACTORS

Always consider three important factors when choosing your end mills: application, material and performance. When machining detail features and cavities in ferrous materials, the Global Die & Mold Cutters perform.

- 30° constant helix provides added rigidity to the flutes for cutting hardened materials
- Ball end option for high performance contour milling in finishing operations
- Corner radius option protects corners in roughing operations and difficult to machine materials by preventing corner chipping and tool failure



SQUARE END

To order a corner radius, use code "CR" & actual radius in the part number. For example, a standard AX-203 would be ordered as AX-203-CR-015, with "015" being the radius.

TIP & END













SERIES DMOSI - SOLIARE END LONG LENGTH

SERIES DIVIZSE - SQUARE END, LONG LENGTH											
DIAN	ANK NETER D1)	DIAN	TTER METER D2)	LEN	UTE IGTH L2)	LEN	RALL IGTH	PLAI SHAN PART#			
1/8	0.125	1/8	0.125	7/8	0.875	2 1/2	2.500	DM2-0214-SQ	D201S		
3/16	0.188	3/16	0.188	7/8	0.875	2 1/2	2.500	DM2-0314-SQ	D202S		
1/4	0.250	1/4	0.250	13/8	1.375	3	3.000	DM2-0422-SQ	D203S		
5/16	0.313	5/16	0.313	13/8	1.375	3	3.000	DM2-0522-SQ	D204S		
3/8	0.375	3/8	0.375	17/8	1.875	3 1/2	3.500	DM2-0630-SQ	D205S		
7/16	0.438	7/16	0.438	17/8	1.875	3 1/2	3.500	DM2-0730-SQ	D206S		
1/2	0.500	1/2	0.500	2 1/8	2.125	4	4.000	DM2-0834-SQ	D207S		
5/8	0.625	5/8	0.625	2 1/8	2.125	4	4.000	DM2-1034-SQ	D208S		
3/4	0.750	3/4	0.750	2 3/8	2.375	5	5.000	DM2-1238-SQ	D209S		
1	1.000	1	1.000	2 3/8	2.375	5	5.000	DM2-1638-S0	D210S		

ODIE & MOLD CUTTERS

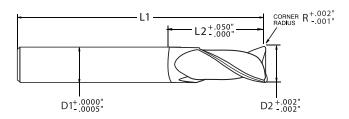


SERIES DMX - CARBIDE, 2 FLUTE, 30° CONSTANT HELIX

IMPROVED RIGIDITY

These tools are ideal for contour machining of mold and die cavities. Premium AITiN-X Nano coating protects the tool from tool steel and hardened materials, while a larger core design adds stability, rigidity and reduces run out.

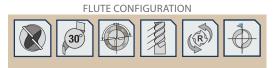
- Premium micro-grain carbide substrate resists chipping, tool deflection, and has a high transverse rupture strength for greater feeds and speeds
- · Large core design for increased stability; higher speeds & feeds; and reduced tool deflection
- · Eccentric relief for enhanced edge strength along the flutes



To order a corner radius, use code "CR" & actual radius in the part number. For example, a standard AX-203 would be ordered as AX-203-CR-015, with "015" being the radius.

TIP & END









SERIES

5 DM20	CS - CORNER	RADIUS, STUE	B LENGTH			
ANK IETER ⁽¹¹⁾	CUTTER DIAMETER (D2)	FLUTE LENGTH (L2)	OVERALL LENGTH (L1)	CORNER RADIUS (R)	PLAII SHAN PART#	
				0.040	D142 0204 D4	Doods

SHA DIAM (1)	ANK IETER	DIAN	TTER Meter D2)	FL LEN	UTE NGTH ⁽¹²⁾	OVE LEN	RALL NGTH (L1)	CORNER RADIUS (R)	PLA SHAI PART#	IN NK EDP#
(,			52,				12-17	0.010	DM2-0204-R1	D0011
1/8	0.125	1/8	0.125	1/4	0.250	2	2.000	0.020	DM2-0204-R2	D0022
								0.030	DM2-0204-R3	D0033
								0.010	DM2-0305-R1	D0041
3/16	0.188	3/16	0.188	5/16	0.313	2 1/2	2.500	0.020	DM2-0305-R2	D0052
								0.030	DM2-0305-R3	D0063
								0.010	DM2-0406-R1	D0071
1/4	0.250	1/4	0.250	3/8	0.375	3	3.000	0.020	DM2-0406-R2	D0082
								0.030	DM2-0406-R3	D0093
								0.020	DM2-0507-R2	D0102
F/1/C	0.212	5/16	0.212	7/16	0.420	2	2.000	0.030	DM2-0507-R3	D0113
5/16	0.313	5/10	0.313	//10	0.438	3	3.000	0.060	DM2-0507-R6	D0126
								0.090	DM2-0507-R9	D0137
								0.020	DM2-0608-R2	D0142
3/8	0.375	3/8	0.375	1/2	0.500	3 1/2	2.500	0.030	DM2-0608-R3	D0153
3/8	0.373	3/8	0.373	1/2	0.500	3 1/2	3.500	0.060	DM2-0608-R6	D0166
								0.090	DM2-0608-R9	D0177
								0.020	DM2-0810-R2	D0182
1/2	0.500	1/2	0.500	5/8	0.625	3 1/2	3.500	0.030	DM2-0810-R3	D0193
1/2	0.500	1/2	0.300	3/0	0.023	3 1/2	3.300	0.060	DM2-0810-R6	D0206
								0.090	DM2-0810-R9	D0217



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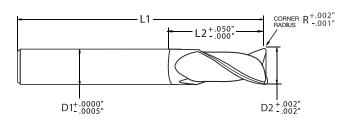
DIE & MOLD CUTTERS

SERIES DMX - CARBIDE, 2 FLUTE, 30° CONSTANT HELIX

HIGHER SPEEDS AND FEEDS

Running at higher speeds and feeds with vibration dampening geometry, our Die and Mold cutters can eliminate the need for expensive hand finishing operations.

- Square end option to create sharp corners in finishing operations
- · Coated for heat resistance, wear resistance and increased lubricity
- Two high strength flute design improves chip formation and evacuation for increased feed rates
- For high feed rate finishing of high hardness ferrous materials



To order a corner radius, use code "CR" & actual radius in the part number. For example, a standard AX-203 would be ordered as AX-203-CR-015, with "015" being the radius.















SH	ANK NETER		TTER Meter		UTE IGTH		RALL IGTH	CORNER RADIUS	PLAI Shai	
DIAN	IEIEK)1)		DETEK D2)	LEI (L2)		L1)	(R)	PART#	EDP#
								0.010	DM2-0210-R1	D1011
1/8	0.125	1/8	0.125	5/8	0.625	2 1/2	2.500	0.020	DM2-0210-R2	D1022
								0.030	DM2-0210-R3	D1033
								0.010	DM2-0310-R1	D1041
3/16	0.188	3/16	0.188	5/8	0.625	2 1/2	2.500	0.020	DM2-0310-R2	D1052
								0.030	DM2-0310-R3	D1063
								0.010	DM2-0414-R1	D1071
1/4	0.250	1/4	0.250	7/8	0.875	2 1/2	2.500	0.020	DM2-0414-R2	D1082
								0.030	DM2-0414-R3	D1093
								0.020	DM2-0514-R2	D1102
5/16	0.313	5/16	0.313	7/8	0.875	2 1/2	2.500	0.030	DM2-0514-R3	D1113
3/10	0.515	3/10	0.515	//0	0.073	2 1/2	2.300	0.060	DM2-0514-R6	D1126
								0.090	DM2-0514-R9	D1137
								0.020	DM2-0618-R2	D1142
3/8	0.375	3/8	0.375	1 1/8	1.125	3	3.000	0.030	DM2-0618-R3	D1153
3/0	0.575	3/0	0.373	1 1/0	1.123	,	3.000	0.060	DM2-0618-R6	D1166
								0.090	DM2-0618-R9	D1177
7/16	0.438	7/16	0.438	1 1/8	1.125	3	3.000	0.030	DM2-0718-R3	D1183
// 10	0.430	//10	U.430	1 1/0	1.123	,	3.000	0.060	DM2-0718-R6	D1196
								0.020	DM2-0822-R2	D1202
1/2	0.500	1/2	0.500	1 2 /0	1,375	3 1/2	3.500	0.030	DM2-0822-R3	D1213
1/2	0.500	1/2	0.500	13/8	1.3/3	3 1/2	3.300	0.060	DM2-0822-R6	D1226
								0.090	DM2-0822-R9	D1237

ODIE & MOLD CUTTERS

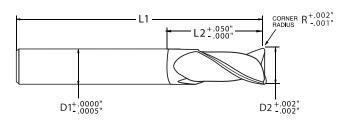


SERIES DMX - CARBIDE, 2 FLUTE, 30° CONSTANT HELIX

COMPLETED IN RECORD TIME

The option to use wet or dry, in roughing and finishing, will make your setup time one of the easiest parts of your day. Our Die and Mold cutters will have your finishing operations completed in record time.

- 30° constant helix provides added rigidity to the flutes for cutting hardened materials
- Ball end option for high performance contour milling in finishing operations
- Corner radius option protects corners in roughing operations and difficult to machine materials by preventing corner chipping and tool failure



To order a corner radius, use code "CR" & actual radius in the part number. For example, a

standard AX-203 would be ordered as AX-203-CR-015, with "015" being the radius.















SERIES DM2CL - CORNER RADIUS, LONG LENGTH



DIAN	ANK METER D1)	CUTTER DIAMETER (D2)		FLUTE LENGTH (L2)		OVERALL LENGTH (L1)		CORNER RADIUS (R)	PLAIN SHANK PART# EDP#	
								0.010	DM2-0214-R1	D2011
1/8	0.125	1/8	0.125	7/8	0.875	3	3.000	0.020	DM2-0214-R2	D2022
								0.030	DM2-0214-R3	D2033
								0.010	DM2-0314-R1	D2041
3/16	0.188	3/16	0.188	7/8	0.875	3	3.000	0.020	DM2-0314-R2	D2052
								0.030	DM2-0314-R3	D2063
								0.010	DM2-0422-R1	D2071
1/4	0.250	1/4	0.250	1 3/8	1.375	3	3.000	0.020	DM2-0422-R2	D2082
								0.030	DM2-0422-R3	D2093
								0.020	DM2-0522-R2	D2102
F/4.6	0.242	5/16	0.212	1.2/0	1 275	2	2.000	0.030	DM2-0522-R3	D2113
5/16	0.313	5/16	0.313	13/8	1.375	3	3.000	0.060	DM2-0522-R6	D2126
								0.090	DM2-0522-R9	D2137
								0.020	DM2-0630-R2	D2142
2 (0	0.275	2/0	0.275	1.7/0	1.075	3.1/3	3.500	0.030	DM2-0630-R3	D2153
3/8	0.375	3/8	0.375	17/8	1.875	3 1/2	3.500	0.060	DM2-0630-R6	D2166
								0.090	DM2-0630-R9	D2177
7/16	0.420	7/1/	0.420	1.7/0	1.075	2.1/2	3.500	0.030	DM2-0730-R3	D2183
7/16	0.438	7/16	0.438	17/8	1.875	3 1/2	3.500	0.060	DM2-0730-R6	D2196
								0.020	DM2-0834-R2	D2202
1/2	0.500	1/2	0.500	2.1/0	2.125		4.000	0.030	DM2-0834-R3	D2213
1/2	0.500	1/2	0.500	2 1/8	2.125	4	4.000	0.060	DM2-0834-R6	D2226
								0.090	DM2-0834-R9	D2237



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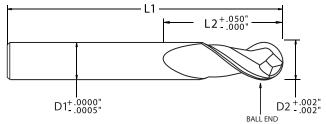
DIE & MOLD CUTTERS

SERIES DMX - CARBIDE, 2 FLUTE, 30° CONSTANT HELIX

HIGH STRENGTH FLUTES

The high strength flutes were engineered for any difficult to machine material, including hardened tool steel, stainless steel, and high temp alloys.

- Premium micro-grain carbide substrate resists chipping, tool deflection, and has a high transverse rupture strength for greater feeds and speeds
- Large core design for increased stability; higher speeds & feeds; and reduced tool deflection
- Eccentric relief for enhanced edge strength along the flutes

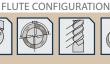


To order a corner radius, use code "CR" & actual radius in the part number. For example, a standard AX-203 would be ordered as AX-203-CR-015, with "015" being the radius.

TIP & END















SERIES DM2BS - BALL END. STUBLENGTH

0 = 1 (1 = 0	D111200	, D, \LL		. 00			OVERALL LENGTH (L1) PLAIN SHANK PART # EDP # 2 2.000 DM2-0204-BE D001B 2 1/2 2.500 DM2-0305-BE D002B 3 3.000 DM2-0406-BE D003B 3 3.000 DM2-0507-BE D004B		
DIA	ANK METER (D1)	DIAN	TTER METER D2)	LEN	UTE IGTH	LEN	GTH	PLAIN SHANK DM2-0204-BE DM2-0305-BE DM2-0406-BE DM2-0507-BE DM2-0608-BE	NK
1/8	0.125	1/8	0.125	1/4	0.250	2	2.000	DM2-0204-BE	D001B
3/16	0.188	3/16	0.188	5/16	0.313	2 1/2	2.500	DM2-0305-BE	D002B
1/4	0.250	1/4	0.250	3/8	0.375	3	3.000	DM2-0406-BE	D003B
5/16	0.313	5/16	0.313	7/16	0.438	3	3.000	DM2-0507-BE	D004B
3/8	0.375	3/8	0.375	1/2	0.500	3 1/2	3.500	DM2-0608-BE	D005B
1/2	0.500	1/2	0.500	5/8	0.625	3 1/2	3 500	DM2_0810_RF	DODER

SERIES DMORR - RAIL END REGILLAR LENGTH

JLIVILJ	DIVIZUI	- DALL	LIND, IN	LOULA	IN LLINO	/ 1 1 1		PLAIN SHANK PART# EDP# DM2-0210-BE D101B DM2-0310-BE D102B DM2-0414-BE D103B DM2-0514-BE D104B DM2-0618-BE D105B DM2-0718-BE D106B	
DIAN	ANK NETER D1)	DIAN	TTER METER D2)	FLUTE LENGTH (L2)		OVERALL LENGTH (L1)		SHANK	
1/8	0.125	1/8	0.125	5/8	0.625	2 1/2	2.500	DM2-0210-BE	D101B
3/16	0.188	3/16	0.188	5/8	0.625	2 1/2	2.500	DM2-0310-BE	D102B
1/4	0.250	1/4	0.250	7/8	0.875	2 1/2	2.500	DM2-0414-BE	D103B
5/16	0.313	5/16	0.313	7/8	0.875	2 1/2	2.500	DM2-0514-BE	D104B
3/8	0.375	3/8	0.375	1 1/8	1.125	3	3.000	DM2-0618-BE	D105B
7/16	0.438	7/16	0.438	1 1/8	1.125	3	3.000	DM2-0718-BE	D106B
1/2	0.500	1/2	0.500	1 3/8	1.375	3 1/2	3.500	DM2-0822-BE	D107B
5/8	0.625	5/8	0.625	1 3/8	1.375	3 1/2	3.500	DM2-1022-BE	D108B
3/4	0.750	3/4	0.750	15/8	1.625	4	4.000	DM2-1226-BE	D109B
1	1.000	1	1.000	1 5/8	1.625	4	4.000	DM2-1626-BE	D110B

DIA	ANK METER D1)	DIAN	TTER METER D2)	LEN	FLUTE LENGTH (L2)		OVERALL LENGTH (L1)		IN NK EDP#
1/8	0.125	1/8	0.125	7/8	0.875	2 1/2	2.500	PART # DM2-0214-BE	D201B
3/16	0.188	3/16	0.188	7/8	0.875	2 1/2	2.500	DM2-0314-BE	D202B
1/4	0.250	1/4	0.250	1 3/8	1.375	3	3.000	DM2-0422-BE	D203B
5/16	0.313	5/16	0.313	13/8	1.375	3	3.000	DM2-0522-BE	D204B
3/8	0.375	3/8	0.375	1 7/8	1.875	3 1/2	3.500	DM2-0630-BE	D205B
7/16	0.438	7/16	0.438	1 7/8	1.875	3 1/2	3.500	DM2-0730-BE	D206B
1/2	0.500	1/2	0.500	2 1/8	2.125	4	4.000	DM2-0834-BE	D207B
5/8	0.625	5/8	0.625	2 1/8	2.125	4	4.000	DM2-1034-BE	D208B
3/4	0.750	3/4	0.750	2 3/8	2.375	5	5.000	DM2-1238-BE	D209B
1	1.000	1	1.000	2 3/8	2.375	5	5.000	DM2-1638-BE	D210B

CONICAL TAPERED

TAPERED HSS

CONICAL TAPERED LHS - RHC

DIE & MOLD CUTTERS

DM APPLICATION GUIDE • SPEED & FEED

DIVITIES MOTO COIDE OF EED WILLD													
WORK MATERIAL		TYPE OF CUT	AXIAL DOC	RADIAL DOC	NO. OF FLUTES	SPEED (SFM)	FEED (INCHES PER TOOTH)						
							1/8" (2 FL)	1/4" (2 FL)	3/8" (2 FL)	1/2" (2 FL)	5/8" (2 FL)	3/4" (2 FL)	1" (2FL)
	PRE-HARDENED STEELS 25 to 48 HRc	Roughing	.06 x D	.30 x D	2	140 - 185	0.0020 - 0.0022	0.0039 - 0.0043	0.0059 - 0.0065	0.0078 - 0.0086	0.0097 - 0.0107	0.0117 - 0.0129	0.0156 - 0.0172
		High Effeciency (HEM)	.06 x D	.30 x D	2	265 - 345	0.0020 - 0.0024	0.0039 - 0.0044	0.0058 - 0.0066	0.0078 - 0.0088	0.0097 - 0.0110	0.0117 - 0.0132	0.0155 - 0.0176
		Finishing	.07 x D	.01 5 x D	2	170 - 220	0.0030 - 0.0034	0.0059 - 0.0064	0.0089 - 0.0096	0.0118 - 0.0127	0.0148 - 0.0159	0.0177 - 0.0191	0.0236 - 0.0255
	HARDENED STEELS Less than 48 HRc	Roughing	.06 x D	.30 x D	2	140 - 185	0.0020 - 0.0022	0.0039 - 0.0043	0.0059 - 0.0065	0.0078 - 0.0086	0.0097 - 0.0107	0.0117 - 0.0129	0.0156 - 0.0172
		High Effeciency (HEM)	.06 x D	.30 x D	2	265 - 345	0.0020 - 0.0024	0.0039 - 0.0044	0.0058 - 0.0066	0.0078 - 0.0088	0.0097 - 0.0110	0.0117 - 0.0132	0.0155 - 0.0176
STEEL		Finishing	.07 x D	.01 5 x D	2	170 - 220	0.0030 - 0.0034	0.0059 - 0.0064	0.0089 - 0.0096	0.0118 - 0.0127	0.0148 - 0.0159	0.0177 - 0.0191	0.0236 - 0.0255
00	HARDENED STEELS 48 to 57 HRc	Roughing	.05 x D	.25 x D	2	110 - 140	0.0020 - 0.0022	0.0039 - 0.0043	0.0059 - 0.0065	0.0078 - 0.0086	0.0097 - 0.0107	0.0117 - 0.0129	0.0156 - 0.0172
HARDENED &TOOL		High Effeciency (HEM)	.05 x D	.25 x D	2	225 - 295	0.0020 - 0.0024	0.0039 - 0.0044	0.0058 - 0.0066	0.0078 - 0.0088	0.0097 - 0.0110	0.0117 - 0.0132	0.0155 - 0.0176
E		Finishing	.06 x D	.015 x D	2	115 - 150	0.0030 - 0.0034	0.0059 - 0.0064	0.0089 - 0.0096	0.0118 - 0.0127	0.0148 - 0.0159	0.0177 - 0.0191	0.0236 - 0.0255
HARD	HARDENED STEELS 58 to 65 HRc	Roughing	.04 x D	.25 x D	2	90 - 120	0.0020 - 0.0022	0.0039 - 0.0043	0.0059 - 0.0065	0.0078 - 0.0086	0.0097 - 0.0107	0.0117 - 0.0129	0.0156 - 0.0172
		High Effeciency (HEM)	.04 x D	.25 x D	2	185 - 240	0.0020 - 0.0024	0.0039 - 0.0044	0.0058 - 0.0066	0.0078 - 0.0088	0.0097 - 0.0110	0.0117 - 0.0132	0.0155 - 0.0176
		Finishing	.03 x D	.01 x D	2	115 - 150	0.0020 - 0.0024	0.0039 - 0.0044	0.0059 - 0.0066	0.0078 - 0.0087	0.0098 - 0.0109	0.0117 - 0.0131	0.0156 - 0.0175
	HARDENED STEELS Greater than 65 HRc	Roughing	.025 x D	.20 x D	2	55 - 75	0.0010 - 0.0012	0.0019 - 0.0023	0.0029 - 0.0035	0.0038 - 0.0046	0.0047 - 0.0057	0.0057 - 0.0069	0.0076 - 0.0092
		High Effeciency (HEM)	.025 x D	.20 x D	2	125 - 165	0.0020 - 0.0024	0.0039 - 0.0044	0.0058 - 0.0066	0.0078 - 0.0088	0.0097 - 0.0110	0.0117 - 0.0132	0.0155 - 0.0176
		Finishing	.02 x D	.01 x D	2	90 - 120	0.0020 - 0.0024	0.0039 - 0.0044	0.0059 - 0.0066	0.0078 - 0.0087	0.0098 - 0.0109	0.0117 - 0.0131	0.0156 - 0.0175

MODIFICATION

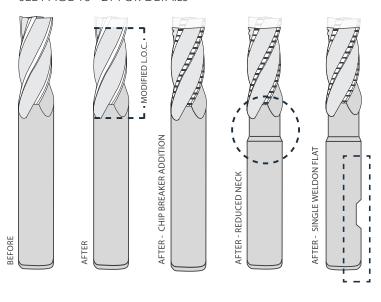
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SEE PAGE 16 - 21 FOR DETAILS





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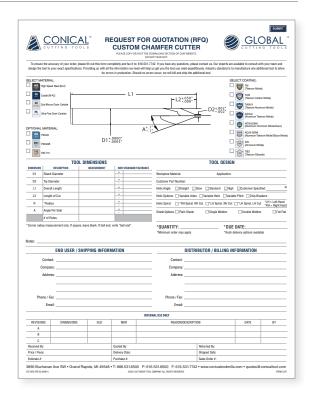
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