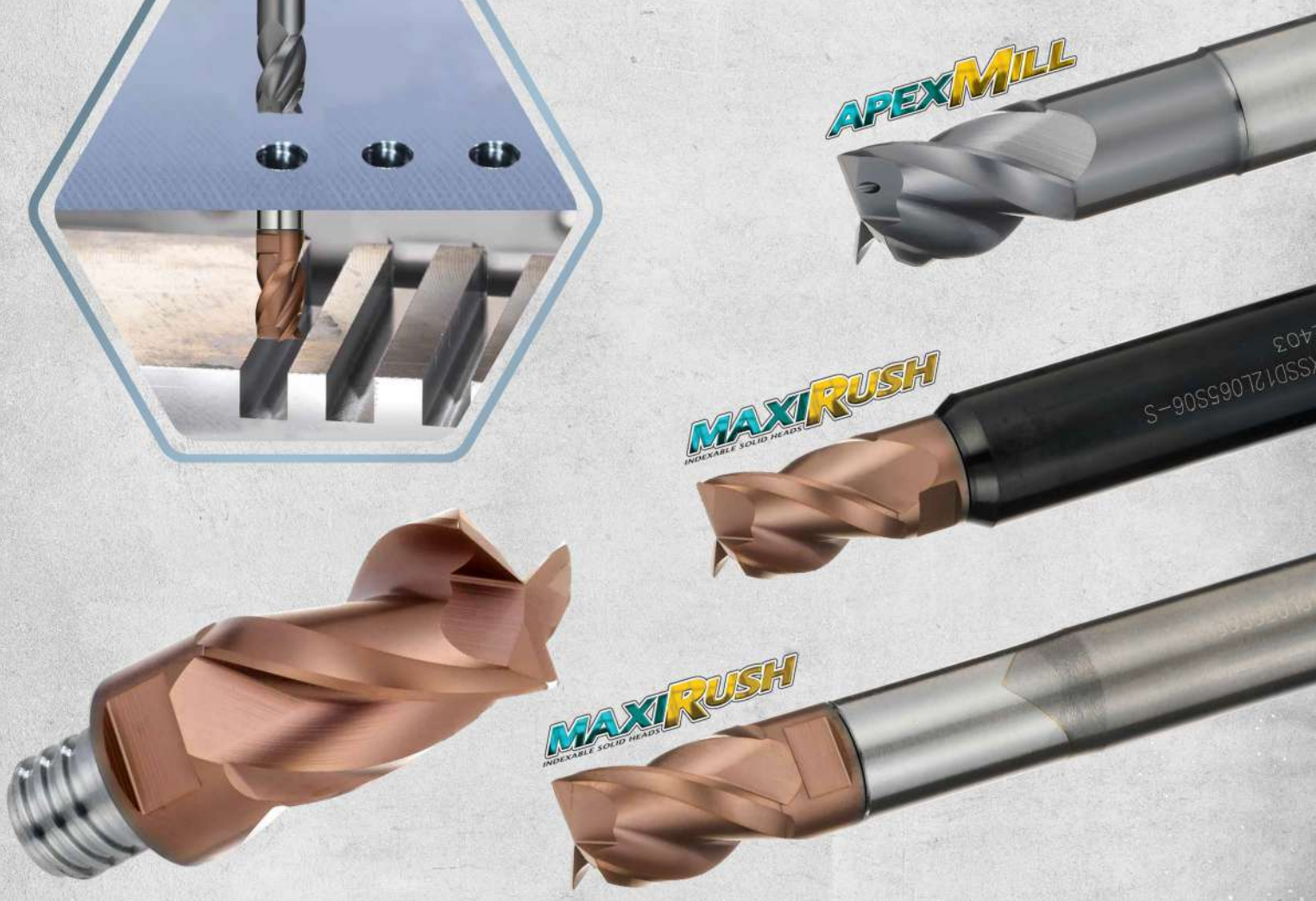
NEW PRODUCT NEWS

mgt
MEGA TECH METALWORK

Taegutec Solid End Mill Line

DRILL-MILL

Drilling and Milling Capable



ADVANCE CUTTING
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NEW PRODUCT NEWS

Taegutec Solid End Mill Line

mgt MEGA TECH METALWORK

KEY POINT

TaeguTec has introduced milling and drilling capable SDM end mills and MXDM heads

TaeguTec's SDM end mills and MXDM heads are high-efficiency machining tools designed for both general milling and drilling operations. Their wide flute design ensures **smooth chip evacuation, even at drilling depths of 1xD**. Additionally, the tapered core's reinforced rigidity and optimal helix angle ensure **smooth cutting and stable machining without performance degradation during milling operations**. Furthermore, this new line quickly transitions from drilling to milling at the drilling depth, improving productivity by reducing the number of machining passes.

Features

- Capable of milling immediately following drilling
- Drilling is possible at feed rates comparable to standard drills
- Excellent performance on general carbon steel, alloy steel as well as stainless steel
- Optimized flute design for smooth chip evacuation during drilling
- Tapered core with reinforced rigidity suited to various milling operations
- Unequal helix angle design for smooth and stable cutting performance
- Helix-type internal coolant for excellent chip evacuation (Solid end mill type only)

Drilling and general milling capable drill-mill product lines new

MXDM
MAXI-RUSH type

SDM
Solid end mill type

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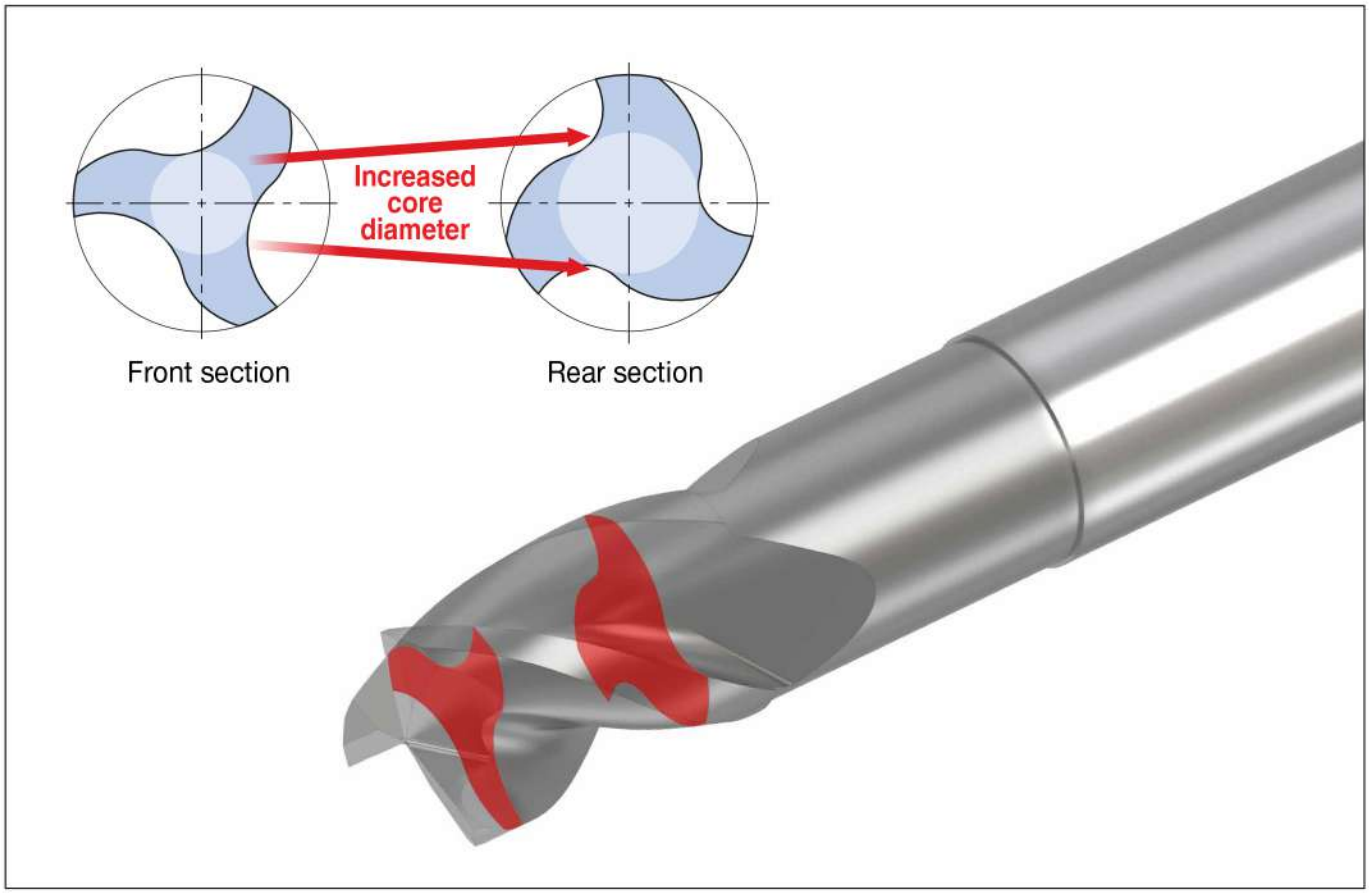
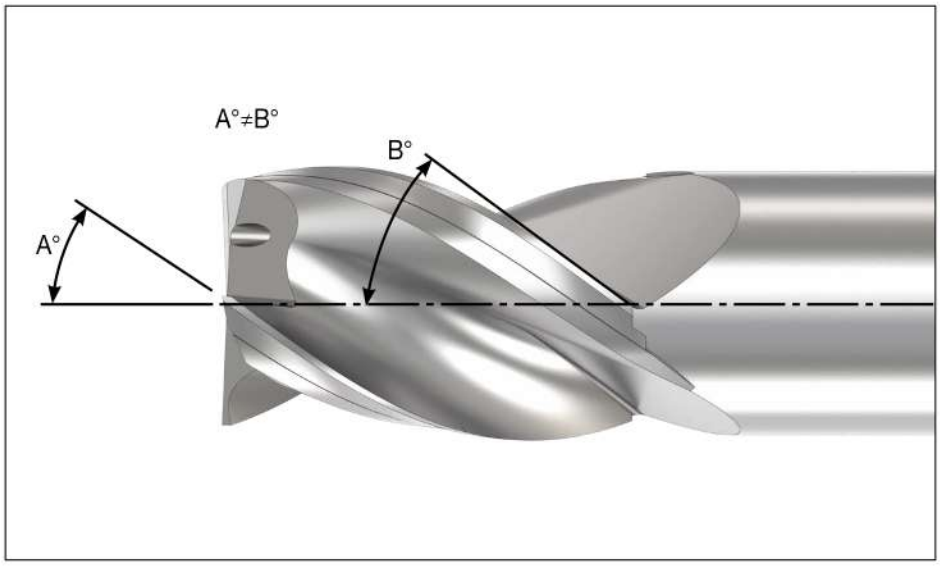
- Widened flute design adapted to drilling operations
- Tapered core design for improved rigidity



- Unequal helix angle design for smooth and stable cutting



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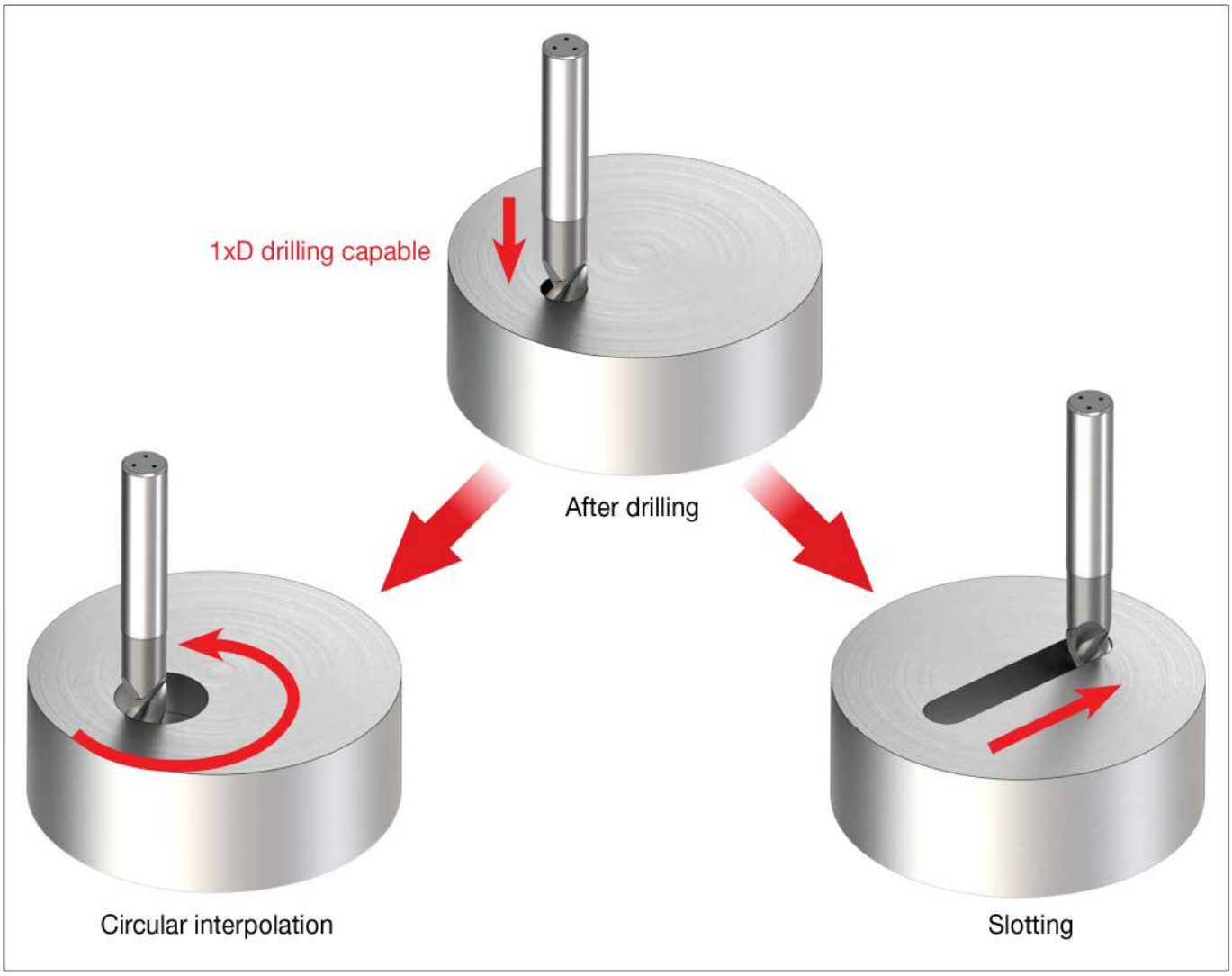
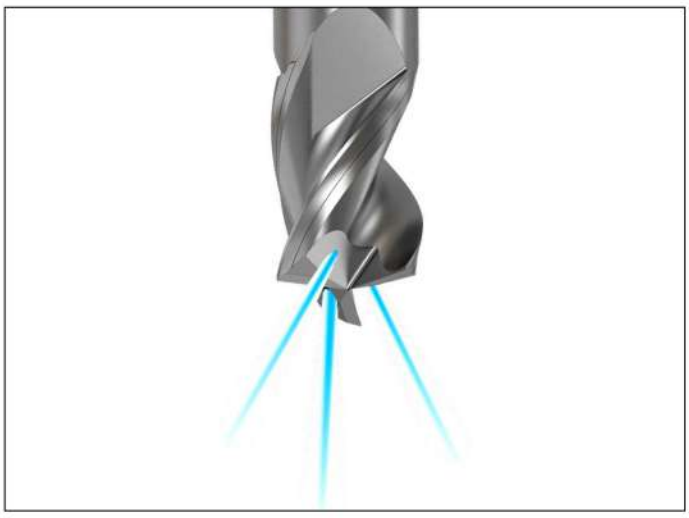
Taegutec Solid End Mill Line

■ Capable of performing all milling operations immediately after drilling



■ Internal coolant-capable for smooth chip evacuation during drilling (Solid end mill type only)
Note: MAXI-RUSH heads require external coolant during drilling operations



Drilling range

■ Drilling is possible at feed rates comparable to standard drills

- SDM end mill

ISO	Cutting speeds (m/min)	Diameter (D)	Feed (mm/rev) Range	0.05	0.10	0.15	0.20	0.25	0.30
P	60-120	Ø10	0.10-0.25						
		Ø12	0.10-0.25						
		Ø16	0.12-0.30						
		Ø20	0.12-0.35						
M	40-60	Ø10	0.05-0.15						
		Ø12	0.05-0.15						
		Ø16	0.06-0.20						
		Ø20	0.06-0.20						

- MXDM heads

ISO	Cutting speeds (m/min)	Diameter (D)	Feed (mm/rev) Range	0.05	0.10	0.15	0.20	0.25	0.30
P	60-120	Ø10	0.10-0.15						
		Ø12	0.10-0.20						
		Ø16	0.12-0.25						
		Ø20	0.12-0.30						

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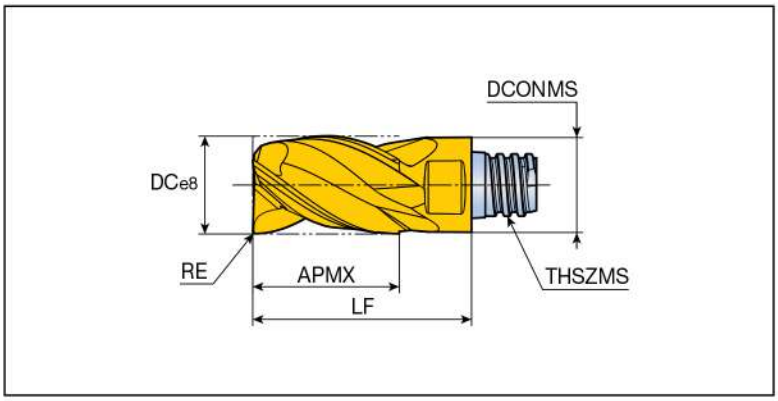
MXDM

MAXIRUSH INDEXABLE SOLID HEADS

3 flute, drill-mill heads



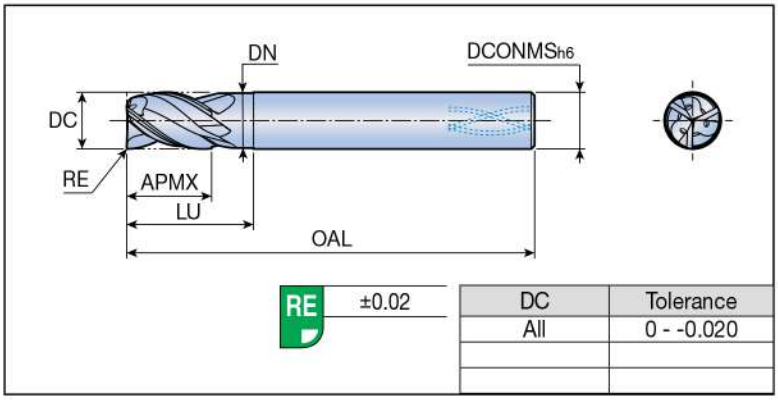
Designation		Feed (mm/tooth)	Dimension (mm)						Grade
			DC	RE	APMX	LF	THSZMS	DCONMS	TT5523
MXDM	100L15R02-03S06	0.025-0.08	10	0.2	15	22	S06	9.7	●
	120L18R02-03S08	0.025-0.10	12	0.2	18	27	S08	11.7	●
	160L24R02-03S10	0.03-0.12	16	0.2	24	33.5	S10	15.3	●
	200L30R02-03S12	0.04-0.16	20	0.2	30	41	S12	18.45	●

●: Standard items

SDM

APEXMILL

3 flute, drill-mills



Designation		Feed (mm/tooth)	Dimension (mm)							Coolant hole	Grade
			DC	RE	OAL	APMX	LU	DN	DCONMS		TT5525
SDM	3100X15X72R0.2	0.025-0.08	10	0.2	72	15	30	9.6	10	●	●
	3120X18X83R0.2	0.025-0.10	12	0.2	83	18	36	11.7	12	●	●
	3160X24X92R0.2	0.03-0.12	16	0.2	92	24	40	15.3	16	●	●
	3200X30X110R0.2	0.04-0.16	20	0.2	110	30	55	18.3	20	●	●

●: Standard items

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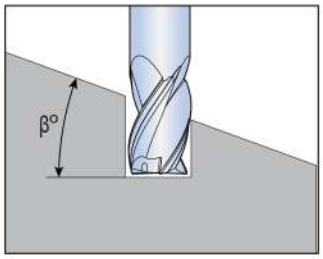
Recommended Cutting Conditions

Machining data for SDM end mills and MXDM heads

Drilling

ISO	Material	Cutting speeds (m/min)	Feed (mm/rev) by diameter							
			SDM				MXDM			
			Ø10	Ø12	Ø16	Ø20	Ø10	Ø12	Ø16	Ø20
P	Carbon steel and Alloy steel	60-120	0.10-0.25	0.10-0.25	0.12-0.30	0.12-0.35	0.10-0.15	0.10-0.20	0.12-0.25	0.12-0.30
M	Stainless steel	40-60	0.05-0.15	0.05-0.15	0.06-0.20	0.06-0.20	-	-	-	-



- Drilling depth: Max. 1xD (diameter)
- When machining with a slope (β) lower than 30°, apply 40-60% feed
- When machining with a slope (β) higher than 30°, apply 20-40% feed, 60-80% cutting speed

Shouldering

ISO	Material	Cutting speeds (m/min)	Feed (mm/tooth) by diameter				ap	ae
			SDM & MXDM					
			Ø10	Ø12	Ø16	Ø20		
P	Carbon steel and Alloy steel	80-150	0.03-0.08	0.035-0.10	0.05-0.12	0.05-0.16	Max. 1xD	Max. 0.5xD
							Max. 1.5xD	Max. 0.2xD
M	Stainless steel	50-100	0.03-0.06	0.03-0.07	0.035-0.09	0.04-0.11	Max. 1xD	Max. 0.3xD
							Max. 1.5xD	Max. 0.1xD

- ap: Axial direction DOC
- ae: Radial direction DOC

Slotting

ISO	Material	Cutting speeds (m/min)	Feed (mm/tooth) by diameter				ap
			SDM & MXDM				
			Ø10	Ø12	Ø16	Ø20	
P	Carbon steel and Alloy steel	50-100	0.03-0.06	0.03-0.06	0.04-0.10	0.045-0.12	Max. 1xD
M	Stainless steel	40-80	0.025-0.04	0.025-0.04	0.03-0.06	0.04-0.08	Max. 1xD

- Reinforced MXSSD shanks are recommended for MXDM heads
- ap: Axial direction DOC

CONTACT US

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