

BELZ



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Product Features:

◆ Self-Centering Drill Point Design

- Eliminate the need for pre-drilling pilot holes, significantly reducing tool-changing and programming time.

◆ Premium HSS-PM Material

- Deliver over 2 x longer tool life compared to conventional HSS drill bits.

◆ Advanced Nano-Coating Technology

- Effectively isolate cutting heat, reducing thermal oxidation risks and further extending tool life.

◆ Optimized X-Shaped Cutting Edge & Dual Relief Angle Design

- Minimize cutting resistance and prevent built-up edge (BUE) formation.

◆ Rational Helix Angle & U-Shaped Flute Design

- Enhance chip evacuation, reducing chip clogging and entanglement.

◆ Excellent Versatility

- Suitable for machining stainless steel, carbon steel, non-ferrous metals, and more.

$D \leq 1.9$ Point Angle 118°

$D > 1.9$ Point Angle 135°

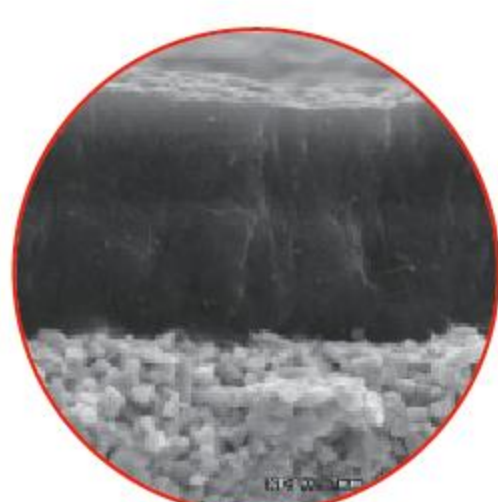


Enlarged Chip Flute

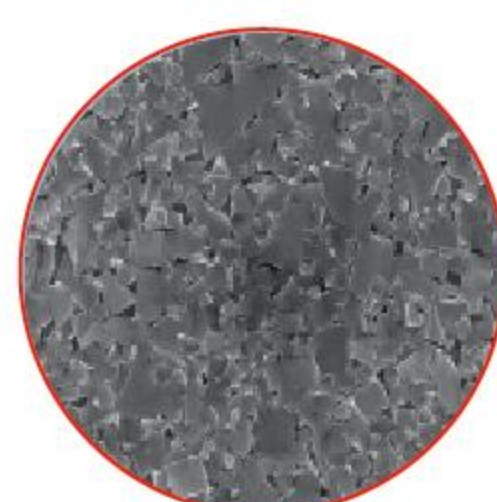
(Rational Helix Angle & U-Shaped Flute Design)



Self-Centering & Split Point Design

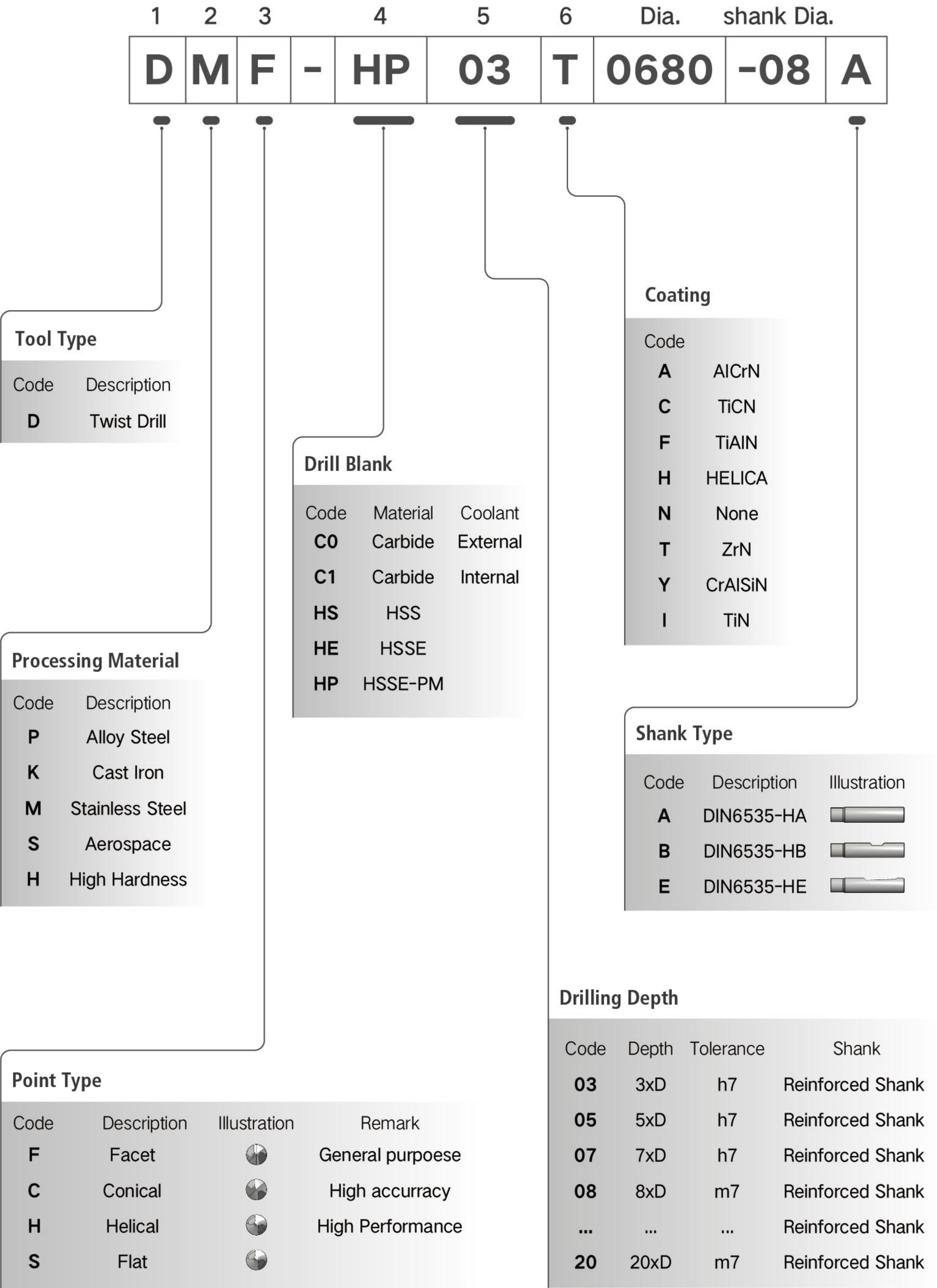


Nano-coating isolates cutting heat



Premium HSS-PM Material

Drill Bit Coding Rules



Workplace	CARBON STEEL (~200HB)		ALLOY STEEL TEMPERED STEEL (20-30HRC)		MOLD STEEL PRE-HARDENED STEEL (30-40HRC)		STAINLESS STEEL	
Dia.	Spindle Speed RPM	Feed mm/min	Spindle Speed RPM	Feed mm/min	Spindle Speed RPM	Feed mm/min	Spindle Speed RPM	Feed mm/min
0.5	16000	240	13000	150	9500	80	5100	50
1	9500	250	8000	190	6400	140	3500	65
2	5700	360	4600	240	3200	160	1900	80
3	4200	460	3400	320	2100	170	1300	85
5	2500	430	2000	290	1250	165	760	80
8	1600	370	1300	250	800	150	480	75
10	1300	340	1000	230	650	140	380	73
12	1100	310	850	210	530	130	320	70
16	800	290	640	200	400	120	240	63
20	640	260	510	180	320	110	190	57
25	510	240	410	160	250	95	150	50
32	400	160	320	120	200	70	120	40

Workplace	CAST IRON		ALUMINUM ALLOY COPPER ALLOY		Heat-resistant and Corrosion-resistant Alloys, Titanium Alloys,Nickel-Chromium-Iron Alloys (30-40HRC)	
Dia.	Spindle Speed RPM	Feed mm/min	Spindle Speed RPM	Feed mm/min	Spindle Speed RPM	Feed mm/min
0.5	20000	300	23000	300		



SALES



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