

Metric Products

The entire content of this chapter can be found
in the Metric Catalog.

Use the QR code or the link shown below.



<https://cutting.tools/us/en/digitalcatalogmetric>



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WNT \ Performance

Premium quality tools for high performance.

The premium quality tools from the **WNT Performance** product line have been designed for specific applications and are distinguished by their outstanding performance. If you make high demands on the performance of your production and want to achieve the very best results, we recommend the Premium tools in this product line.

Symbol explanation

Shank



Shank type



Length: extra short / short / medium / long / extra long

Cutting edge preparation



Sharp



Corner chamfer (CHW = chamfer width in mm)



Full Radius

Application



Machining example



The red arrows describe the possible feed directions



Cutting geometry
 $\lambda_s = 30^\circ$ λ_s = helix angle
 $\gamma_s = 12^\circ$ γ_s = rake angle

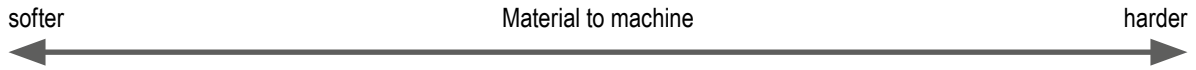
ZEFP = Number of flutes

● = **Main Application**

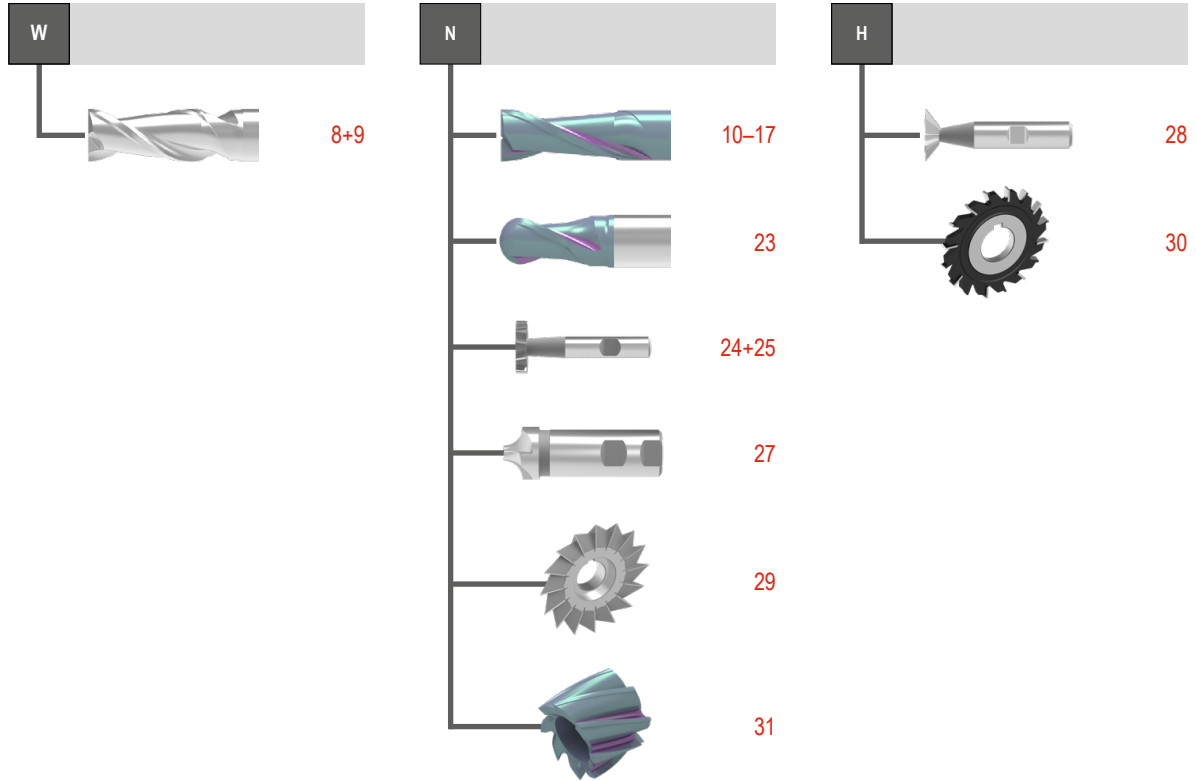
○ = Extended application



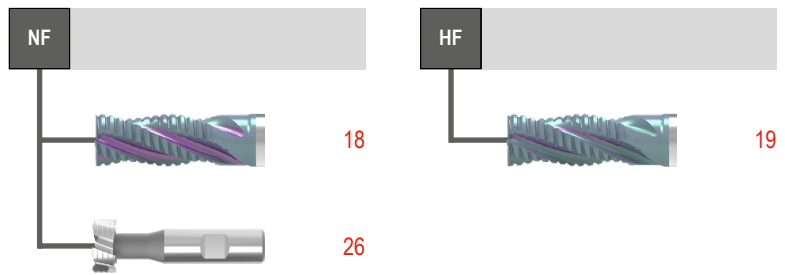
Toolfinder



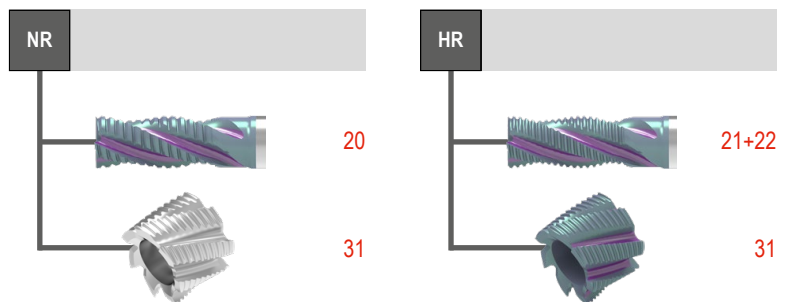
Finish milling



Rough and finish machining



Rough machining



Overview HSS milling cutters

Tool type	ZEFP	Number of flutes	Diameter in inch	Material							Geometry				Length	Material, e.g. PM = Powdersteel	Coating		WNT \ Performance
				Steel	Stainless steel	Cast iron	Non-ferrous metals	Heat-resistant	Tempered steel	Non-metal materials	Square end	Corner chamfer	Corner radius	Full Radius			coated	uncoated	
			Ø DC	P	M	K	N	S	H	O									
Finishing cutter																			
	W	2	2-20				●			●		<input type="checkbox"/>				HSS-E	<input type="checkbox"/>	8	
	W	3-4	2-32				●			●		<input type="checkbox"/>				HSS-E	<input type="checkbox"/>	9	
	N	2	1-26	●	●	●	○	○		○		<input type="checkbox"/>				HSS-E	<input type="checkbox"/>	10+11	
	N	3	1-10	●	●	●	○	○		○		<input type="checkbox"/>				HSS-E	<input type="checkbox"/>	12	
	N	3	1.8-22,0	●	●	●	○	○		○		<input type="checkbox"/>				HSS-E	<input type="checkbox"/>	13+14	
	N	4	4-20	○	●	○	●	●		●		<input type="checkbox"/>				HSS-E	<input type="checkbox"/>	15	
	N	4-8	2-50	●	●	●	○	○		○		<input type="checkbox"/>				HSS-E	<input type="checkbox"/>	16+17	
Rough and finish milling cutters																			
	NF	4	6-25	●	○	●	○	○		○		<input type="checkbox"/>				HSS-E	<input type="checkbox"/>	18	
	HF	4	6-20	●	○	●	○	○		○		<input type="checkbox"/>				PM	<input type="checkbox"/>	19	
Rough milling cutters																			
	NR	3	6-25	●	○	●	○	○		○		<input type="checkbox"/>	<input type="checkbox"/>			HSS-E	<input type="checkbox"/>	20	
	HR	4-6	6-32	●	○	●	○	○		○		<input type="checkbox"/>	<input type="checkbox"/>			PM	<input type="checkbox"/>	21	
	HR	3-6	4-32	●	○	●	○	○		○		<input type="checkbox"/>	<input type="checkbox"/>			HSS-E	<input type="checkbox"/>	22	
Ball nose end milling cutters																			
	N	2	2-30	●	○	●	○	○		○		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		HSS-E	<input type="checkbox"/>	23	

Overview HSS milling cutters

Tool type	ZEFP	Number of flutes	Diameter in inch	Material compatibility							Form				Length	Material, e.g. PM = Powdersteel	coated <input type="checkbox"/>	uncoated <input type="checkbox"/>	Price
				Steel	Stainless steel	Cast iron	Non-ferrous metals	Heat-resistant	Tempered steel	Non-metal materials	Square end	Corner chamfer	Corner radius	Full Radius					
	N	6-10	11-60	●	○	●	○	○	○	○	○	○	○	○	HSS-E	<input type="checkbox"/>	24		
	N	6-12	10,5-45,5	●	○	●	○	○	○	○	○	○	○	HSS-E	<input type="checkbox"/>	25			
	NF	6-8	21-45	●	○	●	○	○	○	○	○	○	○	HSS-E	<input type="checkbox"/>	26			
	N	4-6	6-16	●	○	●	○	○	○	○	○	○	○	HSS-E	<input type="checkbox"/>	27			
	H	10	16-25	●	○	●	○	○	○	○	○	○	○	HSS-E	<input type="checkbox"/>	28			
	N	14-28	40-125	●	○	●	○	○	○	○	○	○	○	HSS-E	<input type="checkbox"/>	29			
	H	16-48	50-160	●	○	●	○	○	○	○	○	○	○	HSS-E	<input type="checkbox"/>	30			
		7-10	40-80	●	○	●	○	○	○	○	○	○	○	HSS-E	<input type="checkbox"/>	<input type="checkbox"/>	31		