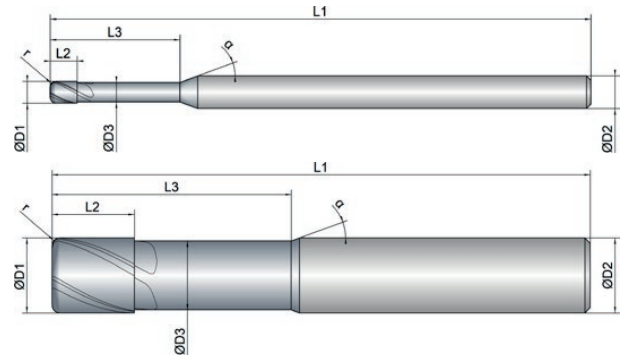


Cooling	
Tolerance	e8
Coating	AlphaFerro Platin X

Strategy	HSC	HPC	
Application			
Features	HA	≠	

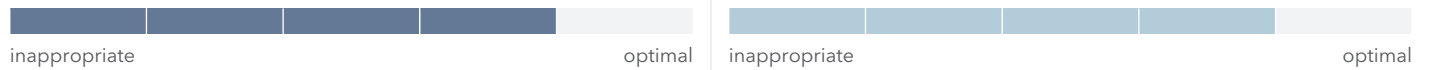


- Unequal tooth pitch and variable helical pitch for smooth running
 - Specially designed cutting edge geometry for contour machining
 - Optimized chip chambers for safe evacuation of the chips
-
- Process reliable roughing and finishing even with full slot milling
 - Multipass milling of 3D contours
-
- Radius tolerance $r \leq 1.5 \text{ mm}$: $\pm 0.003 \text{ mm}$
 - Radius tolerance $r > 1.5 \text{ mm}$: $\pm 0.005 \text{ mm}$


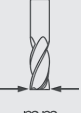
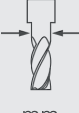



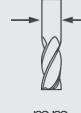




Roughing

Finishing



EXPK1-M06-0103	D1 mm ø	D3 mm ø	L2 mm	L3 mm	L1 mm	D2 mm ø	z #	r mm	 °	α °
1/0,2	1.0	0.85	1.5	10.0	50.0	3.0	4	0.20	30	20
2/0,2	2.0	1.8	2.5	12.0	50.0	3.0	4	0.20	30	20
2/0,5	2.0	1.8	2.5	12.0	50.0	3.0	4	0.50	30	20
3/0,3	3.0	2.7	4.0	14.0	50.0	3.0	4	0.30	30	20
3/0,5	3.0	2.7	4.0	14.0	50.0	3.0	4	0.50	30	20
3/1	3.0	2.7	4.0	14.0	50.0	3.0	4	1.00	30	20
4/0,5	4.0	3.7	5.0	16.0	50.0	4.0	4	0.50	30	20
4/1	4.0	3.7	5.0	16.0	50.0	4.0	4	1.00	30	20
6/0,5	6.0	5.5	7.0	21.0	57.0	6.0	4	0.50	30	20
6/1	6.0	5.5	7.0	21.0	57.0	6.0	4	1.00	30	20

EXPK1- M06-0103	D1	D3	L2	L3	L1	D2	z	r		α
	 mm \varnothing	 mm \varnothing	 mm	 mm	 mm	 mm \varnothing	 #	 mm		
8/0,5	8.0	7.4	9.0	27.0	63.0	8.0	4	0.50	30	20
8/1	8.0	7.4	9.0	27.0	63.0	8.0	4	1.00	30	20
8/2	8.0	7.4	9.0	27.0	63.0	8.0	4	2.00	30	20
10/0,5	10.0	9.2	11.0	32.0	72.0	10.0	4	0.50	30	20
10/1	10.0	9.2	11.0	32.0	72.0	10.0	4	1.00	30	20
10/2	10.0	9.2	11.0	32.0	72.0	10.0	4	2.00	30	20
12/0,5	12.0	11.0	12.0	38.0	83.0	12.0	4	0.50	30	20
12/1	12.0	11.0	12.0	38.0	83.0	12.0	4	1.00	30	20
12/2	12.0	11.0	12.0	38.0	83.0	12.0	4	2.00	30	20
16/1	16.0	15.0	16.0	44.0	92.0	16.0	4	1.00	30	20
16/2	16.0	15.0	16.0	44.0	92.0	16.0	4	2.00	30	20
20/1	20.0	18.5	20.0	55.0	104.0	20.0	4	1.00	30	20



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Material	Strength (N/mm ²)	Dimension	Infeed in mm	Application	Ø1			Ø2			Ø3			Ø4					
					ae=	ae=	ae=	ae=	ae=	ae=	ae=	ae=	ae=	ae=	ae=				
					1xD	0.3xD	0.04xD	1xD	0.3xD	0.04xD	1xD	0.3xD	0.04xD	1xD	0.3xD	0.04xD			
					ap=	ap=	ap=	ap=	ap=	ap=	ap=	ap=	ap=	ap=	ap=				
					0.5xD	1xD	0.04xD	0.5xD	1xD	0.04xD	0.5xD	1xD	0.04xD	0.5xD	1xD	0.04xD			
					Feed (mm/Z)			Feed (mm/Z)			Feed (mm/Z)			Feed (mm/Z)					
					fz	fz	fz	fz	fz	fz	fz	fz	fz	fz	fz	fz			
					Vc (m/min)														
P					Vc (m/min)														
1.1	Steel, unalloyed	<500	200	0.01	0.012	0.015	0.012	0.015	0.018	0.015	0.018	0.02	0.018	0.02	0.022				
1.2-1.5	Steel, unalloyed	<1100	160	0.008	0.01	0.012	0.01	0.012	0.015	0.012	0.015	0.018	0.015	0.018	0.02				
2.1-2.2	Steel, low-alloyed	<950	150	0.008	0.01	0.012	0.01	0.012	0.015	0.012	0.015	0.018	0.015	0.018	0.02				
2.3-2.4	Steel, low-alloyed	<1300	130	0.005	0.008	0.01	0.008	0.01	0.012	0.01	0.012	0.015	0.012	0.015	0.018				
3.1-3.2	Steel, high-alloyed	<1100	145	0.005	0.008	0.01	0.008	0.01	0.012	0.01	0.012	0.015	0.012	0.015	0.018				
3.3	Steel, high-alloyed	<1400	120	0.004	0.005	0.08	0.005	0.008	0.01	0.008	0.01	0.012	0.01	0.012	0.015				

K					Vc (m/min)										
1.1-1.2	Grey cast iron	<1000	180	0.008	0.01	0.012	0.01	0.012	0.015	0.012	0.015	0.018	0.015	0.018	0.02
2.1-2.2	Modular cast iron	<850	145	0.005	0.008	0.01	0.008	0.01	0.012	0.01	0.012	0.015	0.012	0.015	0.018
3.1-3.2	Malleable cast iron	<800	130	0.005	0.008	0.01	0.008	0.01	0.012	0.01	0.012	0.015	0.012	0.015	0.018

M					Vc (m/min)										
1.1	Inox, ferritic/martensitic	<850	80	0.008	0.01	0.01	0.012	0.012	0.015	0.012	0.015	0.018	0.015	0.018	
2.1	Inox, austenitic	<650	70	0.007	0.008	0.008	0.01	0.01	0.012	0.01	0.012	0.015	0.012	0.015	
2.2	Inox, austenitic	<750	60	0.005	0.006	0.006	0.008	0.008	0.01	0.008	0.01	0.012	0.01	0.012	
3.1	Duplex steel	<1100													

Material	Strength (N/mm ²)	Dimension	Infeed in mm	Application	Ø6			Ø8			Ø10			Ø12					
					ae=	ae=	ae=	ae=	ae=	ae=	ae=	ae=	ae=	ae=	ae=				
					1xD	0.3xD	0.04xD	1xD	0.3xD	0.04xD	1xD	0.3xD	0.04xD	1xD	0.3xD	0.04xD			
					ap=	ap=	ap=	ap=	ap=	ap=	ap=	ap=	ap=	ap=	ap=				
					0.5xD	1xD	0.04xD	0.5xD	1xD	0.04xD	0.5xD	1xD	0.04xD	0.5xD	1xD	0.04xD			
					Feed (mm/Z)			Feed (mm/Z)			Feed (mm/Z)			Feed (mm/Z)					
					fz	fz	fz	fz	fz	fz	fz	fz	fz	fz	fz	fz			
					Vc (m/min)														
P					Vc (m/min)														
1.1	Steel, unalloyed	<500	200	0.022	0.027	0.032	0.027	0.034	0.039	0.034	0.043	0.048	0.043	0.053	0.058				
1.2-1.5	Steel, unalloyed	<1100	160	0.02	0.024	0.03	0.024	0.032	0.037	0.032	0.04	0.045	0.04	0.05	0.055				
2.1-2.2	Steel, low-alloyed	<950	150	0.02	0.024	0.03	0.024	0.032	0.037	0.032	0.04	0.045	0.04	0.05	0.055				
2.3-2.4	Steel, low-alloyed	<1300	130	0.018	0.022	0.027	0.022	0.029	0.034	0.029	0.038	0.042	0.038	0.048	0.053				
3.1-3.2	Steel, high-alloyed	<1100	145	0.018	0.022	0.027	0.022	0.029	0.034	0.029	0.038	0.042	0.038	0.048	0.053				
3.3	Steel, high-alloyed	<1400	120	0.015	0.02	0.024	0.02	0.027	0.032	0.027	0.035	0.04	0.035	0.045	0.05				

K					Vc (m/min)										
1.1-1.2	Grey cast iron	<1000	180	0.02	0.022	0.027	0.022	0.029	0.034	0.029	0.038	0.042	0.038	0.048	0.053
2.1-2.2	Modular cast iron	<850	145	0.018	0.02	0.024	0.02	0.027	0.032	0.027	0.035	0.04	0.035	0.045	0.05
3.1-3.2	Malleable cast iron	<800	130	0.018	0.02	0.024	0.02	0.027	0.032	0.027	0.035	0.04	0.035	0.045	0.05

M					Vc (m/min)										
1.1	Inox, ferritic/martensitic	<850	80	0.022	0.027	0.029	0.034	0.038	0.042	0.038	0.042	0.048	0.053		
2.1	Inox, austenitic	<650	70	0.02	0.024	0.027	0.03	0.034	0.038	0.038	0.043	0.048			
2.2	Inox, austenitic	<750	60	0.018	0.022	0.024	0.026	0.03	0.034	0.038	0.043	0.048			
3.1	Duplex steel	<1100													

NOTE | The values marked in turquoise are side applications! By using multipass milling the maximum infeed (ae, ap) is 0.5xcorner radius!



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Dimension	Ø16			Ø20				
	ae=1xD	ae=0.3xD	ae=0.04xD	ae=1xD	ae=0.3xD	ae=0.04xD		
Infeed in mm	ap=0.5xD	ap=1xD	ap=0.04xD	ap=0.5xD	ap=1xD	ap=0.04xD		
Application								

Material	Strength (N/mm ²)	Feed (mm/Z)	Strength (N/mm ²)						
			fz	fz	fz	fz	fz	fz	
P			Vc (m/min)						
1.1	Steel, unalloyed	<500	200	0.053	0.065	0.075	0.065	0.075	0.09
1.2-1.5	Steel, unalloyed	<1100	160	0.05	0.06	0.07	0.06	0.07	0.085
2.1-2.2	Steel, low-alloyed	<950	150	0.05	0.06	0.07	0.06	0.07	0.085
2.3-2.4	Steel, low-alloyed	<1300	130	0.048	0.058	0.068	0.058	0.068	0.083
3.1-3.2	Steel, high-alloyed	<1100	145	0.048	0.058	0.068	0.058	0.068	0.083
3.3	Steel, high-alloyed	<1400	120	0.045	0.055	0.065	0.055	0.065	0.08
K			Vc (m/min)						
1.1-1.2	Grey cast iron	<1000	180	0.048	0.058	0.068	0.058	0.068	0.083
2.1-2.2	Modular cast iron	<850	145	0.045	0.055	0.065	0.055	0.065	0.08
3.1-3.2	Malleable cast iron	<800	130	0.045	0.055	0.065	0.055	0.065	0.08
M			Vc (m/min)						
1.1	Inox, ferritic/martensitic	<850	80	0.058	0.068	0.068	0.068	0.078	
2.1	Inox, austenitic	<650	70	0.053	0.063	0.063	0.063	0.078	
2.2	Inox, austenitic	<750	60	0.048	0.058	0.058	0.058	0.073	
3.1	Duplex steel	<1100							

NOTE | The values marked in turquoise are side applications! By using multipass milling the maximum infeed (ae, ap) is 0.5xcorner radius!