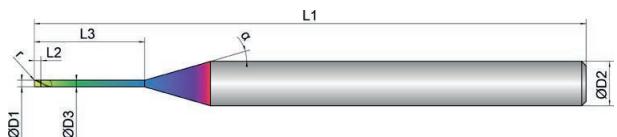
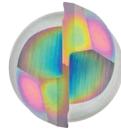


Cooling				
Tolerance	d04			
Coating	AlphaSlide Rainbow			

Strategy	
Application	
Features	



- Optimized face geometry for excellent surfaces and highest dimensional accuracy
- Defined microbevel for support and stabilization
- Polished chip space for ideal chip evacuation



- Multipass milling of 3D contours

- Tolerance D1: -0.001/-0.006 mm
- Tolerance D3: 0/-0.02 mm
- Radius tolerance r: 0/-0.003 mm (measured from 0-90°)

Roughing

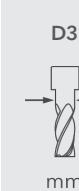
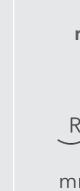
Finishing

inappropriate

optimal

optimal

VEXN1-M16-0023	D1 mm Ø	D3 mm Ø	L2 mm	L3 mm	L1 mm	D2 mm Ø	z #	r mm R	α °
0,2X0,5	0.2	0.18	0.2	0.5	50.0	4.0	2	0.05	30 16
0,2X1	0.2	0.18	0.2	1.0	50.0	4.0	2	0.05	30 16
0,2X2	0.2	0.18	0.2	2.0	50.0	4.0	2	0.05	30 16
0,2X3	0.2	0.18	0.2	3.0	50.0	4.0	2	0.05	30 16
0,3X1	0.3	0.28	0.3	1.0	50.0	4.0	2	0.05	30 16
0,3X2	0.3	0.28	0.3	2.0	50.0	4.0	2	0.05	30 16
0,3X3	0.3	0.28	0.3	3.0	50.0	4.0	2	0.05	30 16
0,3X4	0.3	0.28	0.3	4.0	50.0	4.0	2	0.05	30 16
0,3X6	0.3	0.28	0.3	6.0	50.0	4.0	2	0.05	30 16
0,4X1	0.4	0.38	0.4	1.0	50.0	4.0	2	0.05	30 16
0,4X2	0.4	0.38	0.4	2.0	50.0	4.0	2	0.05	30 16

	D1 	D3 	L2 	L3 	L1 	D2 	z 	r 		α 
EXN1-M16-0023										
0,4X3	0.4	0.38	0.4	3.0	50.0	4.0	2	0.05	30	16
0,4X4	0.4	0.38	0.4	4.0	50.0	4.0	2	0.05	30	16
0,4X6	0.4	0.38	0.4	6.0	50.0	4.0	2	0.05	30	16
0,4X8	0.4	0.38	0.4	8.0	50.0	4.0	2	0.05	30	16
0,5X1	0.5	0.48	0.5	1.0	50.0	4.0	2	0.05	30	16
0,5X2	0.5	0.48	0.5	2.0	50.0	4.0	2	0.05	30	16
0,5X3	0.5	0.48	0.5	3.0	50.0	4.0	2	0.05	30	16
0,5X4	0.5	0.48	0.5	4.0	50.0	4.0	2	0.05	30	16
0,5X6	0.5	0.48	0.5	6.0	50.0	4.0	2	0.05	30	16
0,5X8	0.5	0.48	0.5	8.0	50.0	4.0	2	0.05	30	16
0,5X10	0.5	0.48	0.5	10.0	50.0	4.0	2	0.05	30	16
0,6X3	0.6	0.58	0.6	3.0	50.0	4.0	2	0.05	30	16
0,6X4	0.6	0.58	0.6	4.0	50.0	4.0	2	0.05	30	16
0,6X6	0.6	0.58	0.6	6.0	50.0	4.0	2	0.05	30	16
0,6X8	0.6	0.58	0.6	8.0	50.0	4.0	2	0.05	30	16
0,6X10	0.6	0.58	0.6	10.0	50.0	4.0	2	0.05	30	16

Material	Strength (N/mm ²)	Feed (mm/Z)	Dimension Ø 0.2x0.5			Ø 0.2x3			Ø 0.3x1			Ø 0.3x6									
			Infeed in mm		ae= 1xD ap= 0.2xD	ae= 0.25xD ap= L2 max	ae= 0.1xD ae= 0.1xD	ae= 1xD ap= 0.06xD	ae= 0.05xD ap= L2 max	ae= 0.05xD ae= 0.05xD	ae= 1xD ap= 0.2xD	ae= 0.25xD ap= L2 max	ae= 0.1xD ae= 0.1xD	ae= 1xD ap= 0.02xD	ae= 0.03xD ap= L2 max	ae= 0.01xD ae= 0.01xD					
			Application																		
N														Vc (m/min)							
1.1	Aluminium, alloyed	<500	500	0.008	0.012	0.014	0.005	0.007	0.009	0.008	0.012	0.014	0.005	0.007	0.009						
1.2	Aluminium, alloyed	<600	480	0.008	0.012	0.014	0.005	0.007	0.009	0.008	0.012	0.014	0.005	0.007	0.009						
2.1-2.3	Aluminium, casted	<600	450	0.007	0.011	0.013	0.004	0.006	0.008	0.007	0.011	0.013	0.004	0.006	0.008						
3.1-3.3	Cooper, alloyed	<650	220	0.006	0.01	0.012	0.003	0.005	0.007	0.006	0.01	0.012	0.003	0.005	0.007						
4.1	Magnesium, alloyed	<250	500	0.008	0.012	0.014	0.005	0.007	0.009	0.008	0.012	0.014	0.005	0.007	0.009						
5.1	Thermoplastic	<100	400	0.007	0.011	0.013	0.004	0.006	0.008	0.007	0.011	0.013	0.004	0.006	0.008						
5.2	Duroplastic	<150	350	0.006	0.01	0.012	0.003	0.005	0.007	0.006	0.01	0.012	0.003	0.005	0.007						
N														Vc (m/min)							
1.1	Aluminium, alloyed	<500	500	0.012	0.016	0.018	0.005	0.007	0.009	0.016	0.02	0.022	0.009	0.013	0.015						
1.2	Aluminium, alloyed	<600	480	0.012	0.016	0.018	0.005	0.007	0.009	0.016	0.02	0.022	0.009	0.013	0.015						
2.1-2.3	Aluminium, casted	<600	450	0.011	0.015	0.017	0.004	0.006	0.008	0.015	0.018	0.021	0.008	0.012	0.014						
3.1-3.3	Cooper, alloyed	<650	220	0.01	0.014	0.016	0.003	0.005	0.007	0.014	0.016	0.02	0.007	0.011	0.013						
4.1	Magnesium, alloyed	<250	500	0.012	0.016	0.018	0.005	0.007	0.009	0.016	0.02	0.022	0.009	0.013	0.015						
5.1	Thermoplastic	<100	400	0.011	0.015	0.017	0.004	0.006	0.008	0.015	0.018	0.021	0.008	0.012	0.014						
5.2	Duroplastic	<150	350	0.01	0.014	0.016	0.003	0.005	0.007	0.014	0.016	0.02	0.007	0.011	0.013						
N														Vc (m/min)							
1.1	Aluminium, alloyed	<500	500	0.016	0.02	0.022	0.012	0.015	0.017												
1.2	Aluminium, alloyed	<600	480	0.016	0.02	0.022	0.012	0.015	0.017												
2.1-2.3	Aluminium, casted	<600	450	0.015	0.018	0.021	0.011	0.014	0.016												
3.1-3.3	Cooper, alloyed	<650	220	0.014	0.016	0.02	0.01	0.013	0.015												
4.1	Magnesium, alloyed	<250	500	0.016	0.02	0.022	0.012	0.015	0.017												
5.1	Thermoplastic	<100	400	0.015	0.018	0.021	0.011	0.014	0.016												
5.2	Duroplastic	<150	350	0.014	0.016	0.02	0.01	0.013	0.015												
NOTE Values in the table are the shortest and the longest overhang length (L3) of each dimension; please calculate fz, ap and ae depending on the given values.																					
ae/ap(max)=0.5x corner radius!																					