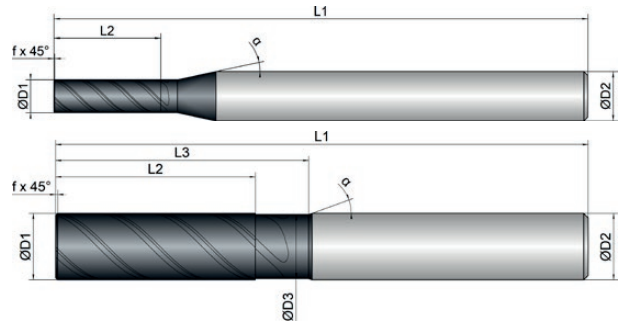
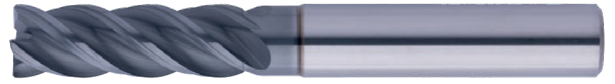
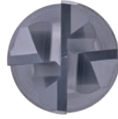


Cooling	
Tolerance	e8
Coating	BetaUni Iron

Strategy	HPC	UNI	
Application			
Features	HA	≠	



- Adapted clearance angle for reliable machining
- Unequal tooth pitch for smooth running
- Large chip chambers for good chip evacuation



Roughing



Finishing



BCU1-M01-0223	D1  mm ∅	D3  mm ∅	L2  mm	L3  mm	L1  mm	D2  mm ∅	z  #	 mm	 °	α  °
4	4.0	0.0	13.0	0.0	65.0	6.0	4	0.10	40	12
5	5.0	0.0	16.0	0.0	65.0	6.0	4	0.20	40	12
6	6.0	5.6	18.0	24.0	65.0	6.0	4	0.20	40	20
8	8.0	7.6	24.0	30.0	70.0	8.0	4	0.20	40	20
10	10.0	9.6	30.0	38.0	80.0	10.0	4	0.20	40	20
12	12.0	11.4	36.0	46.0	93.0	12.0	4	0.20	40	20
16	16.0	15.4	48.0	58.0	110.0	16.0	4	0.30	40	20
20	20.0	19.4	60.0	74.0	126.0	20.0	4	0.30	40	20



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Material	Strength (N/mm <sup>2</sup> )	Dimension	Ø4		Ø5		Ø6		Ø8		Ø10		Ø12		
			Infeed in mm ae=1xD ap=1xD	ae=0.3xD ap=1xD	ae=1xD ap=1xD	ae=0.3xD ap=1xD	ae=1xD ap=1xD	ae=0.3xD ap=1xD	ae=1xD ap=1xD	ae=0.3xD ap=1xD	ae=1xD ap=1xD	ae=0.3xD ap=1xD	ae=1xD ap=1xD	ae=0.3xD ap=1xD	
		Application													
		Feed (mm/Z)	fz	fz	fz	fz	fz	fz	fz	fz	fz	fz	fz	fz	
P		Vc (m/min)													
1.1-1.3	Steel, unalloyed	<850	160	0.012	0.018	0.022	0.028	0.032	0.038	0.042	0.052	0.048	0.06	0.052	0.07
2.1-2.2	Steel, low-alloyed	<950	150	0.01	0.015	0.02	0.025	0.03	0.035	0.04	0.048	0.042	0.055	0.048	0.065
3.1-3.2	Steel, high-alloyed	<1100	140	0.008	0.012	0.018	0.022	0.028	0.032	0.038	0.045	0.038	0.052	0.042	0.06
K		Vc (m/min)													
1.1-1.2	Grey cast iron	<1000	175	0.01	0.015	0.02	0.025	0.03	0.035	0.04	0.048	0.042	0.055	0.048	0.065
M		Vc (m/min)													
1.1	Inox, ferritic/martensitic	<850	70	0.015		0.022		0.032		0.045		0.052		0.06	
2.1	Inox, austenitic	<650	55	0.012		0.02		0.028		0.042		0.05		0.055	
N		Vc (m/min)													
1.1-2.3	Alu, alloyed, casted	<600	340	0.02	0.035	0.035	0.04	0.04	0.06	0.06	0.08	0.08	0.1	0.1	0.12
3.1-3.3	Cooper, alloyed	<600	160	0.015	0.025	0.025	0.03	0.03	0.05	0.05	0.07	0.07	0.09	0.09	0.11
T		Vc (m/min)													
2.1-2.2	Titanium, pure, alloyed	<1000	45	0.012		0.02		0.028		0.042		0.048		0.055	
S		Vc (m/min)													
1.1-1.3	Super alloys	<1450	20	0.01		0.015		0.023		0.038		0.042		0.05	

Material	Strength (N/mm <sup>2</sup> )	Dimension	Ø16		Ø20		Feed (mm/Z)	fz	fz	fz	fz
			Infeed in mm ae=1xD ap=1xD	ae=0.3xD ap=1xD	ae=1xD ap=1xD	ae=0.3xD ap=1xD					
		Application									
P		Vc (m/min)									
1.1-1.3	Steel, unalloyed	<850	160	0.06	0.08	0.075	0.09				
2.1-2.2	Steel, low-alloyed	<950	150	0.05	0.07	0.065	0.08				
3.1-3.2	Steel, high-alloyed	<1100	140	0.045	0.065	0.06	0.075				
K		Vc (m/min)									
1.1-1.2	Grey cast iron	<1000	175	0.05	0.07	0.065	0.08				
M		Vc (m/min)									
1.1	Inox, ferritic/martensitic	<850	70	0.065		0.075					
2.1	Inox, austenitic	<650	55	0.06		0.065					
N		Vc (m/min)									
1.1-2.3	Alu, alloyed, casted	<600	340	0.11	0.13	0.12	0.14				
3.1-3.3	Cooper, alloyed	<600	160	0.1	0.12	0.11	0.13				
T		Vc (m/min)									
2.1-2.2	Titanium, pure, alloyed	<1000	45	0.055		0.065					
S		Vc (m/min)									
1.1-1.3	Super alloys	<1450	20	0.05		0.06					

**NOTE** | The values marked in turquoise are side applications!