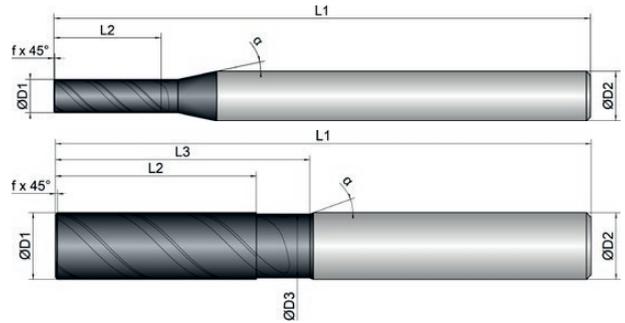
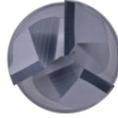


Cooling	
Tolerance	e8
Coating	BetaUni Iron

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-M01-0123	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	3	0.10	45	12
5	5.0	0.0	16.0	0.0	65.0	6.0	3	0.20	45	12
6	6.0	5.6	18.0	24.0	65.0	6.0	3	0.20	45	20
8	8.0	7.6	24.0	30.0	70.0	8.0	3	0.20	45	20
10	10.0	9.6	30.0	38.0	80.0	10.0	3	0.20	45	20
12	12.0	11.4	36.0	46.0	93.0	12.0	3	0.20	45	20
16	16.0	15.4	48.0	58.0	110.0	16.0	3	0.30	45	20
20	20.0	19.4	60.0	74.0	126.0	20.0	3	0.30	45	20



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Material	Strength (N/mm <sup>2</sup> )	Dimension	Ø4		Ø5		Ø6		Ø8		Ø10		Ø12		
			Infeed in mm	Application	ae=1xD	ae=0.3xD	ae=1xD	ae=0.3xD	ae=1xD	ae=0.3xD	ae=1xD	ae=0.3xD	ae=1xD	ae=0.3xD	
		Feed (mm/Z)	fz	fz	fz	fz	fz	fz	fz	fz	fz	fz	fz	fz	
<b>P</b>		<b>Vc (m/min)</b>													
1.1-1.3	Steel, unalloyed	<850	160	0.015	0.02	0.025	0.03	0.035	0.04	0.045	0.055	0.05	0.065	0.055	0.075
2.1-2.2	Steel, low-alloyed	<950	150	0.012	0.018	0.022	0.028	0.032	0.035	0.04	0.05	0.045	0.06	0.05	0.07
3.1-3.2	Steel, high-alloyed	<1100	140	0.01	0.015	0.02	0.025	0.03	0.032	0.038	0.048	0.04	0.055	0.045	0.065
<b>K</b>		<b>Vc (m/min)</b>													
1.1-1.2	Grey cast iron	<1000	175	0.012	0.018	0.025	0.028	0.032	0.035	0.04	0.05	0.045	0.06	0.05	0.07
<b>M</b>		<b>Vc (m/min)</b>													
1.1	Inox, ferritic/martensitic	<850	70	0.015		0.025	0.032		0.048	0.055		0.065			
2.1	Inox, austenitic	<650	55	0.012		0.022	0.03		0.045	0.05		0.06			
<b>N</b>		<b>Vc (m/min)</b>													
1.1-2.3	Alu, alloyed, casted	<600	340	0.025	0.04	0.04	0.045	0.045	0.065	0.065	0.085	0.085	0.11	0.11	0.13
3.1-3.3	Cooper, alloyed	<600	160	0.02	0.03	0.03	0.035	0.035	0.055	0.055	0.075	0.075	0.1	0.1	0.12
<b>T</b>		<b>Vc (m/min)</b>													
2.1-2.2	Titanium, pure, alloyed	<1000	45	0.012		0.022	0.03		0.045	0.05		0.06			
<b>S</b>		<b>Vc (m/min)</b>													
1.1-1.3	Super alloys	<1450	20	0.01		0.018	0.025		0.04	0.045		0.055			

Material	Strength (N/mm <sup>2</sup> )	Dimension	Ø16		Ø20		Feed (mm/Z)	fz	fz	fz	fz
			Infeed in mm	Application	ae=1xD	ae=0.3xD					
<b>P</b>		<b>Vc (m/min)</b>									
1.1-1.3	Steel, unalloyed	<850	160	0.065	0.085	0.085	0.1				
2.1-2.2	Steel, low-alloyed	<950	150	0.055	0.075	0.075	0.09				
3.1-3.2	Steel, high-alloyed	<1100	140	0.05	0.07	0.07	0.08				
<b>K</b>		<b>Vc (m/min)</b>									
1.1-1.2	Grey cast iron	<1000	175	0.055	0.075	0.075	0.09				
<b>M</b>		<b>Vc (m/min)</b>									
1.1	Inox, ferritic/martensitic	<850	70	0.07		0.08					
2.1	Inox, austenitic	<650	55	0.06		0.07					
<b>N</b>		<b>Vc (m/min)</b>									
1.1-2.3	Alu, alloyed, casted	<600	340	0.12	0.14	0.13	0.15				
3.1-3.3	Cooper, alloyed	<600	160	0.11	0.13	0.12	0.14				
<b>T</b>		<b>Vc (m/min)</b>									
2.1-2.2	Titanium, pure, alloyed	<1000	45	0.06		0.07					
<b>S</b>		<b>Vc (m/min)</b>									
1.1-1.3	Super alloys	<1450	20	0.055		0.065					

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