

Cooling

Tolerance V1

Coating BetaUni Iron

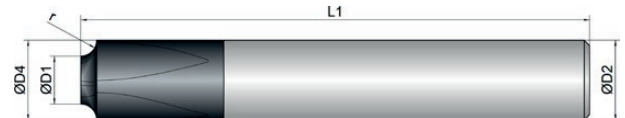
Strategy **UNI**

Application

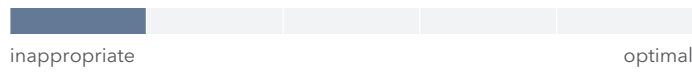
Features **HA**

Basic

■ For the universal manufacturing of radii to components



Roughing



Finishing



BCU1-M11-0023	D1 mm Ø	D4 mm Ø	L1 mm	D2 mm Ø	z #	r mm
3/0,5	3.0	4	50.0	4.0	4	0.50
3,2/0,4	3.2	4	50.0	4.0	4	0.40
3,4/0,3	3.4	4	50.0	4.0	4	0.30
3,6/0,2	3.6	4	50.0	4.0	4	0.20
4/1	4.0	6	50.0	6.0	4	1.00
4,4/0,8	4.4	6	50.0	6.0	4	0.80
4,8/0,6	4.8	6	50.0	6.0	4	0.60
5/1,5	5.0	10	66.0	10.0	4	1.50
5/10	5.0	25	100.0	25.0	4	10.00
6/2	6.0	10	66.0	10.0	4	2.00
6/3	6.0	12	73.0	12.0	4	3.00
7/2,5	7.0	12	73.0	12.0	4	2.50
7/4,5	7.0	16	82.0	16.0	4	4.50
8/4	8.0	16	82.0	16.0	4	4.00
8/6	8.0	20	80.0	20.0	4	6.00
9/3,5	9.0	16	82.0	16.0	4	3.50
9/8	9.0	25	100.0	25.0	4	8.00
10/5	10.0	20	80.0	20.0	4	5.00



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		Dimension	Ø3.6 R0.2	Ø3.4 R0.3	Ø3.2 R0.4	Ø3 R0.5	Ø4.8 R0.6	Ø4.4 R0.8	Ø4 R1	Ø5 R1.5	Ø6 R2	Ø7 R2.5	
		Infeed in mm	ae= rmax ap= rmax	ae= rmax ap= rmax	ae= rmax ap= rmax	ae= rmax ap= rmax	ae= rmax ap= rmax	ae= rmax ap= rmax	ae= rmax ap= rmax	ae= rmax ap= rmax	ae= rmax ap= rmax	ae= rmax ap= rmax	
		Application											
Material	Strength (N/mm ²)	Feed (mm/Z)	fz	fz	fz	fz	fz	fz	fz	fz	fz	fz	
P		Vc (m/min)											
1.1-1.3	Steel, unalloyed	<850	170	0.024	0.024	0.024	0.024	0.028	0.028	0.028	0.03	0.034	0.038
2.1-2.2	Steel, low-alloyed	<950	150	0.02	0.02	0.02	0.02	0.024	0.024	0.024	0.026	0.03	0.034
3.1-3.2	Steel, high-alloyed	<1100	100	0.016	0.016	0.016	0.016	0.02	0.02	0.02	0.022	0.026	0.03
K		Vc (m/min)											
1.1-1.2	Grey cast iron	<1000	125	0.016	0.016	0.016	0.016	0.02	0.02	0.02	0.022	0.026	0.03
M		Vc (m/min)											
1.1	Inox, ferritic/martensitic	<850	85	0.012	0.012	0.012	0.012	0.016	0.016	0.016	0.018	0.022	0.026
2.1	Inox, austenitic	<650	75	0.01	0.01	0.01	0.01	0.014	0.014	0.014	0.016	0.02	0.024
N		Vc (m/min)											
1.1-2.3	Alu, alloyed, casted	<600	500	0.029	0.029	0.029	0.029	0.033	0.033	0.033	0.035	0.039	0.043
3.1-3.3	Cooper, alloyed	<600	180	0.02	0.02	0.02	0.02	0.024	0.024	0.024	0.026	0.03	0.034
T		Vc (m/min)											
2.1-2.2	Titanium, pure, alloyed	<1000	40	0.012	0.012	0.012	0.012	0.016	0.016	0.016	0.018	0.022	0.026
S		Vc (m/min)											
1.1-1.3	Super alloys	<1450	25	0.01	0.01	0.01	0.01	0.014	0.014	0.014	0.016	0.02	0.024

		Dimension	Ø6 R3	Ø9 R3.5	Ø8 R4	Ø7 4.5	Ø10 R5	Ø8 R6	Ø9 R8	Ø5 R10		
		Infeed in mm	ae= rmax ap= rmax	ae= rmax ap= rmax	ae= rmax ap= rmax	ae= rmax ap= rmax	ae= rmax ap= rmax	ae= rmax ap= rmax	ae= rmax ap= rmax	ae= rmax ap= rmax		
		Application										
Material	Strength (N/mm ²)	Feed (mm/Z)	fz	fz	fz	fz	fz	fz	fz	fz		
P		Vc (m/min)										
1.1-1.3	Steel, unalloyed	<850	170	0.038	0.04	0.04	0.04	0.041	0.041	0.045	0.045	
2.1-2.2	Steel, low-alloyed	<950	150	0.034	0.036	0.036	0.036	0.037	0.037	0.04	0.04	
3.1-3.2	Steel, high-alloyed	<1100	100	0.03	0.032	0.032	0.032	0.033	0.033	0.035	0.035	
K		Vc (m/min)										
1.1-1.2	Grey cast iron	<1000	125	0.03	0.032	0.032	0.032	0.033	0.033	0.035	0.035	
M		Vc (m/min)										
1.1	Inox, ferritic/martensitic	<850	85	0.026	0.028	0.028	0.028	0.029	0.029	0.03	0.03	
2.1	Inox, austenitic	<650	75	0.024	0.026	0.026	0.026	0.027	0.027	0.028	0.028	
N		Vc (m/min)										
1.1-2.3	Alu, alloyed, casted	<600	500	0.043	0.045	0.045	0.045	0.046	0.046	0.05	0.05	
3.1-3.3	Cooper, alloyed	<600	180	0.034	0.036	0.036	0.036	0.037	0.037	0.04	0.04	
T		Vc (m/min)										
2.1-2.2	Titanium, pure, alloyed	<1000	40	0.026	0.028	0.028	0.028	0.029	0.029	0.03	0.03	
S		Vc (m/min)										
1.1-1.3	Super alloys	<1450	25	0.024	0.026	0.026	0.026	0.027	0.027	0.028	0.028	

NOTE | The values marked in turquoise are side applications!

Please use the arithmetic average from D2 and D1 to calculate cutting datas. For example tool Ø5 R10, D1=Ø5; R=10
calculated diameter = Ø15 Formula: D1+R= Result Example: 5mm+10mm=15mm