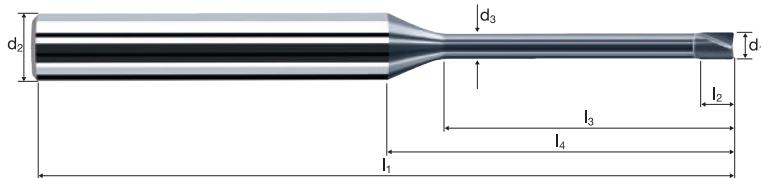
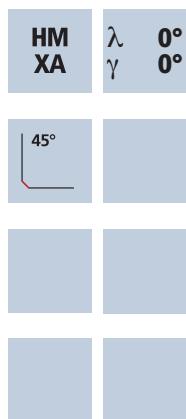


Cylindrical end mills Microcut

Shank ø 4mm, cylindrical neck, 15xd

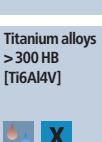
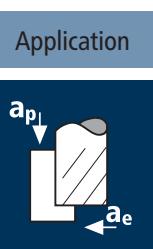
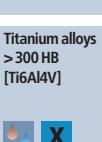
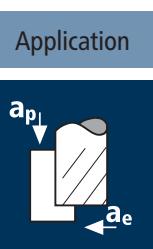
Base-X

B



Rm < 850	Rm 850-1100	Rm 1100-1300	Rm 1300-1500	HRC 48-56	HRC 56-60	Inox Stainless	Ti Titanium	Cobalt-Chrome Gold / Platinum Copper
-------------	----------------	-----------------	-----------------	--------------	--------------	-------------------	----------------	--

Ø Code	Coating Article-Nº. ø-Code										X-AL	
											X6811	
	d ₁ 0/-0.01	d ₂ h4	d ₃	l ₁	l ₂	l ₃	l ₄	45°	α	z		
100	1.00	4.00	0.95	50	1.20	15.00	20.85	0.04	4.3°	2		●
120	1.50	4.00	1.40	57	1.80	22.50	27.30	0.04	2.8°	2		●
140	2.00	4.00	1.90	61	2.40	30.00	33.87	0.07	1.9°	2		●
180	3.00	4.00	2.80	75	3.60	45.00	46.91	0.07	0.8°	2		●

Application	Material	d_1 [mm]	z	v_c [m/min]	f_z [mm]	a_p [mm]	a_e [mm]	n [min ⁻¹]	v_f [mm/min]	Q [mm ³ /min]
	Steel 850 - 1100 N/mm ²  	1.00 1.50 2.00 3.00	2 2 2 2	53 53 53 53	0.007 0.011 0.014 0.021	0.200 0.300 0.400 0.600	0.100 0.150 0.200 0.300	16870 11245 8435 5625	236 236 236 236	4.7 10.6 18.9 42.6
	Steel 1100 - 1300 N/mm ²  	1.00 1.50 2.00 3.00	2 2 2 2	41 41 41 41	0.006 0.009 0.012 0.018	0.200 0.300 0.400 0.600	0.100 0.150 0.200 0.300	13050 8700 6525 4350	157 157 157 157	3.2 7.1 12.6 28.2
	Inox normal [Cr-Ni/1.4301] [Cr-Ni-Mo/1.4571]  	1.00 1.50 2.00 3.00	2 2 2 2	33 33 33 33	0.005 0.007 0.009 0.014	0.200 0.300 0.400 0.600	0.100 0.150 0.200 0.300	10505 7005 5250 3500	95 95 95 95	1.9 4.3 7.6 17.0
	Titanium alloys >300 HB [Ti6Al4V]  	1.00 1.50 2.00 3.00	2 2 2 2	20 20 20 20	0.005 0.007 0.009 0.014	0.200 0.300 0.400 0.600	0.100 0.150 0.200 0.300	6365 4245 3185 2120	57 57 57 57	1.2 2.6 4.6 10.3
	Steel 850 - 1100 N/mm ²  	1.00 1.50 2.00 3.00	2 2 2 2	48 48 48 48	0.006 0.008 0.011 0.017	0.100 0.150 0.200 0.300	1.000 1.500 2.000 3.000	15280 10185 7640 5095	171 171 171 171	17.1 38.5 68.5 154.1
	Steel 1100 - 1300 N/mm ²  	1.00 1.50 2.00 3.00	2 2 2 2	37 37 37 37	0.005 0.007 0.010 0.014	0.100 0.150 0.200 0.300	1.000 1.500 2.000 3.000	11775 7850 5890 3925	113 113 113 113	11.3 25.5 45.3 101.7
	Inox normal [Cr-Ni/1.4301] [Cr-Ni-Mo/1.4571]  	1.00 1.50 2.00 3.00	2 2 2 2	29 29 29 29	0.004 0.005 0.007 0.011	0.100 0.150 0.200 0.300	1.000 1.500 2.000 3.000	9230 6155 4615 3075	67 67 67 66	6.7 15.0 26.6 59.8
	Titanium alloys >300 HB [Ti6Al4V]  	1.00 1.50 2.00 3.00	2 2 2 2	18 18 18 18	0.004 0.005 0.007 0.011	0.100 0.150 0.200 0.300	1.000 1.500 2.000 3.000	5730 3820 2865 1910	41 41 41 41	4.2 9.3 16.5 37.2