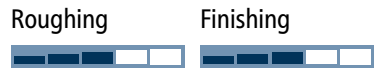
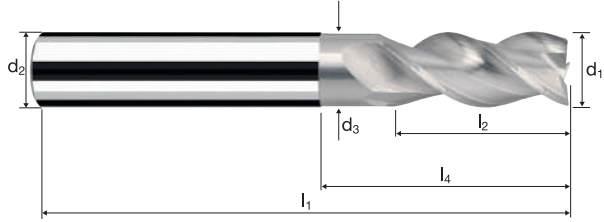
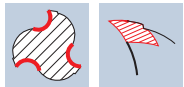
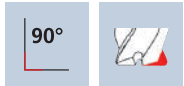


Cylindrical end mills AX (AX-NV3)

Smooth-edged, normal version with short neck



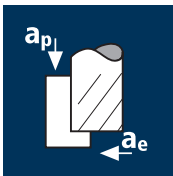
HM
MG10 λ 40°
 γ 20°



Rm < 850 Al Aluminium > 99% Al Aluminium Alloy Al Aluminium Cast Cu Copper Plastic Thermoplast

| Ø Code | d ₁ e8 | d ₂ h6 | d ₃ | l ₁ | l ₂ | l ₃ | l ₄ | α | z | CELERO | |
|-----------|----------------------|----------------------|----------------|----------------|----------------|----------------|----------------|------|---|--------|--------|
| | | | | | | | | | | 15630 | C15630 |
| | | | | | | | | | | 15530 | C15530 |
| 180 | 3.00 | 6.00 | 2.80 | 57 | 8.00 | 14.00 | 20.63 | 4.5° | 3 | ● | ● |
| 220 | 4.00 | 6.00 | 3.70 | 57 | 11.00 | 16.00 | 20.95 | 3.0° | 3 | ● | ● |
| 260 | 5.00 | 6.00 | 4.60 | 57 | 13.00 | 18.00 | 21.27 | 1.5° | 3 | ● | ● |
| 300 | 6.00 | 6.00 | 5.50 | 57 | 13.00 | 19.34 | 20.00 | 0.0° | 3 | ● | ● |
| 391 | 8.00 | 8.00 | 7.40 | 63 | 19.00 | 25.29 | 26.00 | 0.0° | 3 | ● | ● |
| 450 | 10.00 | 10.00 | 9.20 | 72 | 22.00 | 30.20 | 31.00 | 0.0° | 3 | ● | ● |
| 501 | 12.00 | 12.00 | 11.00 | 83 | 26.00 | 36.13 | 37.00 | 0.0° | 3 | ● | ● |
| 610 | 16.00 | 16.00 | 15.00 | 92 | 32.00 | 42.13 | 43.00 | 0.0° | 3 | ● | ● |
| 682 | 20.00 | 20.00 | 19.00 | 104 | 38.00 | 52.13 | 53.00 | 0.0° | 3 | ● | ● |
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Application



Material

Wrought aluminium
Construction aluminium



Unalloyed copper



Thermoplastics



Cast aluminium



Wrought aluminium
Construction aluminium



Unalloyed copper



Thermoplastics



Cast aluminium



| d1 [mm] | z | v _c [m/min] | f _s [mm] | a _p [mm] | a _e [mm] | n [min ⁻¹] | v _r [mm/min] | Q [cm ³ /min] |
|------------|---|---------------------------|------------------------|------------------------|------------------------|---------------------------|----------------------------|-----------------------------|
| 3.00 | 3 | 396 | 0.050 | 4.500 | 1.400 | 42015 | 6305 | 39.7 |
| 4.00 | 3 | 528 | 0.065 | 6.000 | 1.800 | 42015 | 8195 | 88.5 |
| 5.00 | 3 | 550 | 0.085 | 7.500 | 2.300 | 35015 | 8930 | 154.0 |
| 6.00 | 3 | 550 | 0.110 | 9.000 | 2.700 | 29180 | 9630 | 234.0 |
| 8.00 | 3 | 550 | 0.135 | 12.000 | 3.600 | 21885 | 8865 | 382.9 |
| 10.00 | 3 | 550 | 0.165 | 15.000 | 4.500 | 17505 | 8665 | 585.0 |
| 12.00 | 3 | 550 | 0.200 | 18.000 | 5.400 | 14590 | 8755 | 850.8 |
| 16.00 | 3 | 550 | 0.215 | 24.000 | 7.200 | 10940 | 7060 | 1219.5 |
| 20.00 | 3 | 550 | 0.250 | 30.000 | 9.000 | 8755 | 6565 | 1772.6 |
| 3.00 | 3 | 396 | 0.040 | 4.500 | 1.350 | 42015 | 5040 | 30.6 |
| 4.00 | 3 | 400 | 0.050 | 6.000 | 1.800 | 31830 | 4775 | 51.6 |
| 5.00 | 3 | 400 | 0.070 | 7.500 | 2.250 | 25465 | 5350 | 90.2 |
| 6.00 | 3 | 400 | 0.090 | 9.000 | 2.700 | 21220 | 5730 | 139.2 |
| 8.00 | 3 | 400 | 0.110 | 12.000 | 3.600 | 15915 | 5250 | 226.9 |
| 10.00 | 3 | 400 | 0.130 | 15.000 | 4.500 | 12730 | 4965 | 335.2 |
| 12.00 | 3 | 400 | 0.160 | 18.000 | 5.400 | 10610 | 5095 | 495.0 |
| 16.00 | 3 | 400 | 0.170 | 24.000 | 7.200 | 7960 | 4060 | 701.3 |
| 20.00 | 3 | 400 | 0.200 | 30.000 | 9.000 | 6365 | 3820 | 1031.3 |
| 3.00 | 3 | 396 | 0.050 | 4.500 | 1.350 | 42015 | 6305 | 38.3 |
| 4.00 | 3 | 528 | 0.065 | 6.000 | 1.800 | 42015 | 8195 | 88.5 |
| 5.00 | 3 | 660 | 0.085 | 7.500 | 2.250 | 42015 | 10715 | 180.8 |
| 6.00 | 3 | 792 | 0.110 | 9.000 | 2.700 | 42015 | 13865 | 336.9 |
| 8.00 | 3 | 1000 | 0.135 | 12.000 | 3.600 | 39790 | 16115 | 696.1 |
| 10.00 | 3 | 1000 | 0.165 | 15.000 | 4.500 | 31830 | 15755 | 1063.6 |
| 12.00 | 3 | 1000 | 0.200 | 18.000 | 5.400 | 26525 | 15915 | 1547.0 |
| 16.00 | 3 | 1000 | 0.215 | 24.000 | 7.200 | 19895 | 12830 | 2217.3 |
| 20.00 | 3 | 1000 | 0.250 | 30.000 | 9.000 | 15915 | 11935 | 3222.9 |
| 3.00 | 3 | 396 | 0.050 | 4.500 | 1.350 | 42015 | 6305 | 38.3 |
| 4.00 | 3 | 440 | 0.065 | 6.000 | 1.800 | 35015 | 6830 | 73.7 |
| 5.00 | 3 | 440 | 0.085 | 7.500 | 2.250 | 28010 | 7145 | 120.5 |
| 6.00 | 3 | 440 | 0.110 | 9.000 | 2.700 | 23345 | 7705 | 187.2 |
| 8.00 | 3 | 440 | 0.135 | 12.000 | 3.600 | 17505 | 7090 | 306.3 |
| 10.00 | 3 | 440 | 0.165 | 15.000 | 4.500 | 14005 | 6935 | 468.0 |
| 12.00 | 3 | 440 | 0.200 | 18.000 | 5.400 | 11670 | 7005 | 680.7 |
| 16.00 | 3 | 440 | 0.215 | 24.000 | 7.200 | 8755 | 5645 | 975.6 |
| 20.00 | 3 | 440 | 0.250 | 30.000 | 9.000 | 7005 | 5250 | 1418.1 |
| 3.00 | 3 | 396 | 0.035 | 1.800 | 3.000 | 42015 | 4410 | 23.8 |
| 4.00 | 3 | 450 | 0.045 | 2.400 | 4.000 | 35810 | 4835 | 46.4 |
| 5.00 | 3 | 450 | 0.060 | 3.000 | 5.000 | 28650 | 5155 | 77.3 |
| 6.00 | 3 | 450 | 0.075 | 3.600 | 6.000 | 23875 | 5370 | 116.0 |
| 8.00 | 3 | 450 | 0.095 | 4.800 | 8.000 | 17905 | 5105 | 196.0 |
| 10.00 | 3 | 450 | 0.115 | 6.000 | 10.000 | 14325 | 4940 | 296.5 |
| 12.00 | 3 | 450 | 0.140 | 7.200 | 12.000 | 11935 | 5015 | 433.2 |
| 16.00 | 3 | 450 | 0.150 | 9.600 | 16.000 | 8950 | 4030 | 618.8 |
| 20.00 | 3 | 450 | 0.175 | 12.000 | 20.000 | 7160 | 3760 | 902.4 |
| 3.00 | 3 | 350 | 0.030 | 1.800 | 3.000 | 37135 | 3340 | 18.0 |
| 4.00 | 3 | 350 | 0.035 | 2.400 | 4.000 | 27850 | 2925 | 28.1 |
| 5.00 | 3 | 350 | 0.050 | 3.000 | 5.000 | 22280 | 3340 | 50.1 |
| 6.00 | 3 | 350 | 0.060 | 3.600 | 6.000 | 18570 | 3340 | 72.2 |
| 8.00 | 3 | 350 | 0.075 | 4.800 | 8.000 | 13925 | 3135 | 120.3 |
| 10.00 | 3 | 350 | 0.090 | 6.000 | 10.000 | 11140 | 3010 | 180.5 |
| 12.00 | 3 | 350 | 0.110 | 7.200 | 12.000 | 9285 | 3065 | 264.7 |
| 16.00 | 3 | 350 | 0.120 | 9.600 | 16.000 | 6965 | 2505 | 385.0 |
| 20.00 | 3 | 350 | 0.140 | 12.000 | 20.000 | 5570 | 2340 | 561.5 |
| 3.00 | 3 | 396 | 0.035 | 1.800 | 3.000 | 42015 | 4410 | 23.8 |
| 4.00 | 3 | 528 | 0.045 | 2.400 | 4.000 | 42015 | 5670 | 54.5 |
| 5.00 | 3 | 660 | 0.060 | 3.000 | 5.000 | 42015 | 7565 | 113.4 |
| 6.00 | 3 | 792 | 0.075 | 3.600 | 6.000 | 42015 | 9455 | 204.2 |
| 8.00 | 3 | 800 | 0.095 | 4.800 | 8.000 | 31830 | 9070 | 348.4 |
| 10.00 | 3 | 800 | 0.115 | 6.000 | 10.000 | 25465 | 8785 | 527.1 |
| 12.00 | 3 | 800 | 0.140 | 7.200 | 12.000 | 21220 | 8915 | 770.1 |
| 16.00 | 3 | 800 | 0.150 | 9.600 | 16.000 | 15915 | 7160 | 1100.1 |
| 20.00 | 3 | 800 | 0.175 | 12.000 | 20.000 | 12730 | 6685 | 1604.3 |
| 3.00 | 3 | 360 | 0.035 | 1.800 | 3.000 | 38195 | 4010 | 21.7 |
| 4.00 | 3 | 360 | 0.045 | 2.400 | 4.000 | 28650 | 3865 | 37.1 |
| 5.00 | 3 | 360 | 0.060 | 3.000 | 5.000 | 22920 | 4125 | 61.9 |
| 6.00 | 3 | 360 | 0.075 | 3.600 | 6.000 | 19100 | 4295 | 92.8 |
| 8.00 | 3 | 360 | 0.095 | 4.800 | 8.000 | 14325 | 4080 | 156.8 |
| 10.00 | 3 | 360 | 0.115 | 6.000 | 10.000 | 11460 | 3955 | 237.2 |
| 12.00 | 3 | 360 | 0.140 | 7.200 | 12.000 | 9550 | 4010 | 346.5 |
| 16.00 | 3 | 360 | 0.150 | 9.600 | 16.000 | 7160 | 3225 | 495.0 |
| 20.00 | 3 | 360 | 0.175 | 12.000 | 20.000 | 5730 | 3010 | 721.9 |