

# STC End Mills Set SuperF-UT Z



- Particularly stable thanks to re-inforced core
- Universal application
- Up to 1400N/mm<sup>2</sup>
- Micro-corner protection
- Centre cutting
- Unequal flute spacing
- HPC machining of tough, low- and high-alloyed steels and difficult to machine special materials

## F-UT Z and ZS



Material	Hardness / tensile strength	Cutting width ae	vc [m/min]	Feed fz [mm/z] with nom. Ø							
				3	6	8	10	12	16	20	25
<b>P Struct. + free-cutting steels, unalloyed heat-treat. + case hard. steels</b> 1.0486 P275N, 1.0345, P235GH, 1.0050, 1.8937, 1.0718 11SMnPb30, 1.1178 G30E, 1.0503 C45, 1.2307 29CrMoV9	up to 850 N/mm <sup>2</sup>	0.3xD	280	0.015	0.040	0.050	0.060	0.070	0.100	0.120	0.140
<b>P Free-cutting steels, unalloyed case hardened steels, nitriding steels</b> 1.0727 46 S20, 1.0728 60 S20, 1.0757 46SPb20, 1.0601 C60, 1.1221 C60E, 1.7043 38Cr4, 1.5752 15NiCr13, 1.7131 16MnCr5	850-1,200 N/mm <sup>2</sup>	0.25xD	180	0.015	0.030	0.050	0.060	0.070	0.100	0.100	0.130
<b>P Alloyed heat-treatable, tool and high speed steels</b> 1.2379 X155CrVMo12-1, 1.3243 S 6-5-2-5, 1.3343 S 6-5-2, 1.5026 55Si7, 1.7176 55Cr3, 1.8159 51CrV4	850-1,400 N/mm <sup>2</sup>	0.25xD	180	0.015	0.030	0.050	0.060	0.070	0.100	0.100	0.130
<b>M Stainless steel</b> 1.4104 X14CrMoS17, 1.4105 X6CrMoS17, 1.4305 X10CrNiS18-9 USA = 303, 410, 420F, 430, 430F	up to 750 N/mm <sup>2</sup>	0.2xD	150	0.015	0.030	0.040	0.050	0.060	0.070	0.090	0.120
<b>M Stainless steel</b> 1.4301 X5CrNi18-10, 1.4303 X5CrNi18-12 1.4310 XCrNi18-8 USA = 304, 304L, 420	750-850 N/mm <sup>2</sup>	0.15xD	100	0.015	0.030	0.040	0.050	0.060	0.070	0.090	0.120
<b>M Stainless steel</b> 1.4438 X2CrNiMo18-15-4, 1.4404 X2CrNiMo17-12-2, 1.4571 X6CrNiTi18-10	up to 850 N/mm <sup>2</sup>	0.15xD	100	0.015	0.030	0.040	0.050	0.060	0.070	0.090	0.120
<b>S Special alloys (nickel based *Ni*)</b> Nimonic, Inconel, Monel, Hastelloy	above 1,300 N/mm <sup>2</sup>	0.15xD	130	0.016	0.025	0.035	0.050	0.060	0.080	0.100	0.120
<b>T Titanium alloys (*Ti*)</b> 3.7024 Ti96.5, 3.7114 TiAl5Sn2.5, 3.7124 TiCu2 3.7154 TiAl6Zr5, 3.7164 TiAl6V4, 3.7184 TiAl4Mo4Sn2.5	up to 1,300 N/mm <sup>2</sup>	0.15xD	130	0.016	0.025	0.035	0.050	0.060	0.080	0.100	0.120

Slotting possible upto ap 0,8xD with Type F-UT Z (with 30% reduced vc and fz)



## SuperF-UT Z SuperF-UT ZS

- High-performance roughing including large cutting depths
- High running smoothness and metal removal rate
- HPC-milling in tough, low- and high-alloyed steels and difficult-to-machine special materials