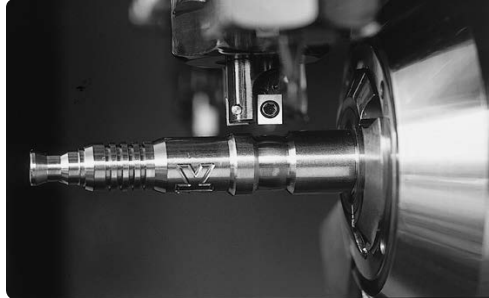


NTK Swiss Milling Tools

Small Diameter Indexable End-mill

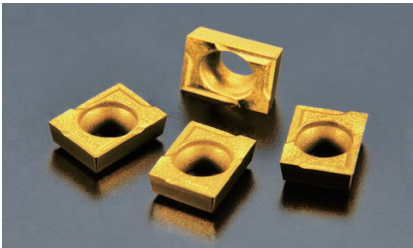


Features

- Install a .787" (20mm) end mill in a ER16 collet
- Just rotate inserts to index. No need to make any adjustments
- High quality surface finish, as low as 1um (Rz) when using wiper inserts
- Corner radius as small as .002" available on inserts
- In addition to D cut, ramp machining can be performed *

* A combination of single-blade type endmills and inserts with center blade is required

Inserts



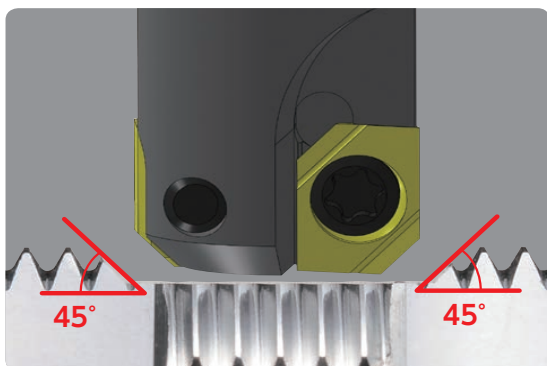
Wiper

- Excellent surface finish obtained with wiper insert

Chipbreaker

- Less tool pressure with chipbreaker

45° Chamfer



| Chamfered surface finish insert | |
|---------------------------------|---------|
| S45C | |
| 310 SFM | |
| .0056 IPR | |
| .039 DOC | |
| WET | |
| NTK : QM3 C45 | 700 pcs |
| Competitor's solid endmill | 500 pcs |

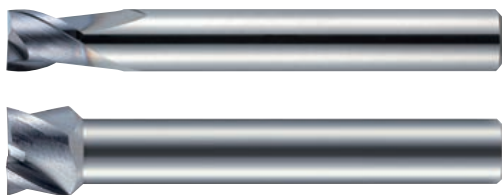
S-MILL / Solid Carbide End-mill



Features

- The tools sharpness creates a remarkable finish on machined surface
- 2, 3, and 4 flute designs with a selection of diameters to cover a variety of applications (2 flute available in 2mm ϕ)
- 40, 45, and 50 mm lengths ideal for automatic lathes
- AC3 grade - Micro-grain carbide + Thin TiACrN-TiAlN coat

Two style



3 Flute Options



Field Result

| 316 SS (D-cut) ϕ 6mm-2 flute | |
|---|-----------------------------|
| 3,200 rpm | |
| 5.5 IPM | |
| .024 DOC | |
| WET | |
| NTK : S-MILL | 12,000 pcs/corner+ α |
| Competitor's solid endmill | 10,000 pcs/corner |
| <small>The competitor's end mill showed an obvious decrease in surface finish quality as it reached the end of its tool life. NTK's S-MILL maintained a quality surface finish throughout the extent of its longer tool life.</small> | |

| 1045 (AF 8mm HEX) ϕ 6mm-2 flute | |
|---|-------------------------|
| 2,600 rpm | |
| 18.9 IPM | |
| .039 DOC | |
| WET | |
| NTK : S-MILL | 70 pcs/corner+ α |
| Competitor's solid endmill | 50 pcs/corner |
| <small>The S-MILL sharpness reduces the occurrence of burrs and tool life is increased; clear improvements over the competitor's tool. The sharp cutting edge also produces noticeably less sound than the current tooling.</small> | |



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