

Garant
Solid carbide roughing end mill MTC, TiAlN, Ø d11 DC: 6mm

Order data

| | |
|--------------|---------------|
| Order number | 205712 6 |
| GTIN | 4045197362667 |
| Item class | 11X |

Description
Version:

Dimensions similar to DIN 6527.

Optimised special knuckle profile for roughing.

Very **high rate of metal removal**.

With **special internal tooth profile** and 50° flutes for reliable chip breaking in **stainless steels**.

Application:

Especially for **MTC (Multi Task Cutting)** use on the new generation of turning / milling centres.

Technical description

| | |
|---|----------------------------------|
| Overhang length L_1 incl. recess | 21 mm |
| Cutting edge $\varnothing D_c$ | 6 mm |
| Feed f_z for slot milling in stainless steel $> 900 \text{ N/mm}^2$ | 0.014 mm |
| No. of teeth Z | 4 |
| Corner chamfer width at 45° | 0.15 mm |
| Recess $\varnothing D_1$ | 5.5 mm |
| Feed f_z for side milling in INOX $> 900 \text{ N/mm}^2$ | 0.02 mm |
| Shank $\varnothing D_s$ | 6 mm |
| Overall length L | 58 mm |
| Flute length L_c | 12 mm |
| Direction of infeed | horizontal, oblique and vertical |

| | |
|---|-----------------------------|
| Shank | DIN 6535 HB to h6 |
| Tolerance nominal \varnothing | d11 |
| Helix angle | 50 degrees |
| Corner chamfer angle | 45 degrees |
| Coating | TiAlN |
| Tool material | Solid carbide |
| Standard | DIN 6527 |
| Milling profile | HR |
| Cutting width a_e for milling operation | 0.5×D for side milling |
| Cutting width a_e for milling operation | Full slot cutting depth 1×D |
| Through-coolant | no |
| Machining strategy | MTC |
| Colour ring | blue |
| Type of product | End / face mill |

User data

| | Suitability | V_c | ISO code |
|--------------------------------|---|-----------|----------|
| Steel < 500 N/mm ² | suitable | 180 m/min | P |
| Steel < 750 N/mm ² | suitable | 170 m/min | P |
| Steel < 900 N/mm ² | suitable | 170 m/min | P |
| Steel < 1100 N/mm ² | suitable | 140 m/min | P |
| INOX < 900 N/mm ² | suitable | 100 m/min | M |
| INOX > 900 N/mm ² | suitable | 80 m/min | M |
| wet maximum | suitable | | |
| wet minimum | suitable only under restricted conditions | | |
| dry | suitable only under restricted conditions | | |
| Air | Suitable only under restricted conditions | | |

