

Garant
Solid carbide roughing end mill MTC, AlCrN, Ø e8 DC: 10mm

Order data

| | |
|--------------|---------------|
| Order number | 203071 10 |
| GTIN | 4045197776068 |
| Item class | 11X |

Description
Version:

For **roughing and finishing** up to $0.7 \times D$ into solid material **at very high feed rates** with smooth cutting action.

For cutting force reduction and better surface quality due to **45° helix**.

Improved coating for a further reduction in cutting force combined with increased tool life.

Application:

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

Technical description

| | |
|---|-------------------|
| Shank $\varnothing D_s$ | 10 mm |
| Flute length L_c | 22 mm |
| Overhang length L_1 incl. recess | 58 mm |
| Shank | DIN 6535 HB to h6 |
| Overall length L | 100 mm |
| Tolerance nominal \varnothing | e8 |
| Corner chamfer width at 45° | 0.2 mm |
| No. of teeth Z | 4 |
| Recess $\varnothing D_1$ | 9.7 mm |
| Cutting edge $\varnothing D_c$ | 10 mm |
| Feed f_z for side milling in steel $< 900 \text{ N/mm}^2$ | 0.05 mm |

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|--|----------------------------------|
| Balance quality with shank | G 2.5 with HB |
| Direction of infeed | horizontal, oblique and vertical |
| Feed f_z for slot milling in steel < 900 N/mm ² | 0.04 mm |
| Helix angle | 45 degrees |
| Corner chamfer angle | 45 degrees |
| Coating | AlCrN |
| Tool material | solid carbide |
| Standard | Manufacturer's standard |
| Type | N |
| Helix angle characteristic | unequal spacing |
| Spacing of the cutters | unequal spacing |
| Cutting width a_e for milling operation | 0.1×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 | green |
| Type of product | End / face mill |

User data

| | Suitability | V_c | ISO code |
|--------------------------------|-------------|-----------|----------|
| Steel < 500 N/mm ² | suitable | 100 m/min | P |
| Steel < 750 N/mm ² | suitable | 90 m/min | P |
| Steel < 900 N/mm ² | suitable | 85 m/min | P |
| Steel < 1100 N/mm ² | suitable | 80 m/min | P |
| INOX < 900 N/mm ² | suitable | 40 m/min | M |
| INOX > 900 N/mm ² | suitable | 30 m/min | M |
| GG(G) | suitable | 100 m/min | K |
| Uni | suitable | | |
| wet maximum | suitable | | |

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|-------------|---|
| wet minimum | suitable only under restricted conditions |
| dry | suitable |
| Air | suitable |