

**Garant**
**Solid carbide roughing end mill MTC / TPC, TiAlN, Ø f8 DC: 10 mm**

**Order data**

Order number	202979 10
GTIN	4062406245191
Item class	11X

**Description**
**Version:**

**Significant cutting force reduction** due to 45° helix.

**Application:**

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

**Note:**

For materials > 55 HRC we recommend reducing the depth of cut to  $a_p = 0.25 \times D \dots 0.5 \times D$ .

Tolerance nominal Ø: f8

No. of teeth Z: 4

Helix angle: 45 degrees

Direction of infeed: horizontal, oblique and vertical

Shank: DIN 6535 HA to h6

No. of teeth Z: 4

Flute length  $L_c$ : 22 mm

Overhang length  $L_1$  incl. recess: 30 mm

Recess Ø  $D_1$ : 9.2 mm

Overall length L: 72 mm

Shank Ø  $D_s$ : 10 mm

**Technical description**

Tolerance nominal Ø	f8
No. of teeth Z	4
Overhang length $L_1$ incl. recess	30 mm
Flute length $L_c$	22 mm
Overall length L	72 mm

Feed $f_z$ for slot milling in steel < 60 HRC	0.025 mm
Shank	DIN 6535 HA to h6
Direction of infeed	horizontal, oblique and vertical
Helix angle	45 degrees
Recess $\varnothing D_1$	9.2 mm
Feed $f_z$ for side milling in steel < 60 HRC	0.03 mm
Shank $\varnothing D_s$	10 mm
Cutting edge $\varnothing D_c$	10 mm
Corner rounding $r_v$	0.2 mm
Coating	TiAlN
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	H
Helix angle characteristic	unequal spacing
Spacing of the cutters	unequal spacing
Cutting width $a_e$ for milling operation	0.1×D
Cutting width $a_e$ for milling operation	Full slot cutting depth 1×D
Cutting width $a_e$ for milling operation	0.15×D for side milling
Through-coolant	no
Machining strategy	MTC
Machining strategy	TPC
Colour ring	red
Type of product	End mill

## Services

Shank recess Type FRST	209900 FRST
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