

**Garant**
**Solid carbide roughing end mill MTC, TiAlN, Ø f8 DC: 16 mm**

**Order data**

Order number	202982 16
GTIN	4045197459862
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 HB to h6

No. of teeth Z: 4

Flute length  $L_c$ : 32 mm

Overhang length  $L_1$  incl. recess: 100 mm

Recess Ø  $D_1$ : 15 mm

Overall length L: 150 mm

Shank Ø  $D_s$ : 16 mm

**Technical description**

Recess Ø $D_1$	15 mm
Cutting edge Ø $D_c$	16 mm
Corner chamfer width at 45°	0.15 mm
Overhang length $L_1$ incl. recess	100 mm
Feed $f_z$ for side milling in steel < 60 HRC	0.045 mm

No. of teeth Z	4
Shank $\varnothing D_s$	16 mm
Overall length L	150 mm
Flute length $L_c$	32 mm
Direction of infeed	horizontal, oblique and vertical
Shank	DIN 6535 HB to h6
Tolerance nominal $\varnothing$	f8
Helix angle	45 degrees
Feed $f_z$ for slot milling in steel < 60 HRC	0.04 mm
Corner chamfer angle	45 degrees
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	Full slot cutting depth $1 \times D$
Cutting width $a_e$ for milling operation	$0.15 \times D$ for side milling
Through-coolant	no
Machining strategy	MTC
Colour ring	red
Type of product	End mill

## Services

Shank recess Type FRST	209900 FRST
Shank clamping flats for shrink-fit chucks, with retainer function Shank $\varnothing$ tool 16 mm	SZ2025 16