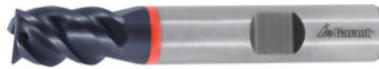


Garant
Solid carbide roughing end mill MTC, TiAlN, Ø f8 DC: 12 mm

Order data

Order number	202976 12
GTIN	4045197431301
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 : 16 mm

Overall length L: 73 mm

Shank Ø D_s : 12 mm

Corner chamfer width at 45°: 0.15 mm

Feed f_z for slot milling in steel < 60 HRC: 0.03 mm

Technical description

Corner chamfer width at 45°	0.15 mm
No. of teeth Z	4
Feed f_z for side milling in steel < 60 HRC	0.035 mm
Cutting edge Ø D_c	12 mm
Feed f_z for slot milling in steel < 60 HRC	0.03 mm

Shank $\varnothing D_s$	12 mm
Overall length L	73 mm
Flute length L_c	16 mm
Direction of infeed	horizontal, oblique and vertical
Shank	DIN 6535 HB to h6
Tolerance nominal \varnothing	f8
Helix angle	45 degrees
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	0.3xD for side milling
Cutting width a_e for milling operation	Full slot cutting depth 1xD
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 12 mm	SZ2025 12