

Garant

Solid carbide roughing end mill MTC / TPC, TiAlN, Ø f8 DC: 20 mm



Order data

Order number	202977 20
GTIN	4045197431424
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 : 41 mm

Overhang length L_1 incl. recess: 50 mm

Recess Ø D_1 : 19 mm

Overall length L: 104 mm

Shank Ø D_s : 20 mm

Technical description

Cutting edge Ø D_c	20 mm
No. of teeth Z	4
Corner chamfer width at 45°	0.25 mm
Recess Ø D_1	19 mm
Feed f_z for side milling in steel < 60 HRC	0.05 mm

Overhang length L_1 incl. recess	50 mm
Feed f_z for slot milling in steel < 60 HRC	0.045 mm
Shank $\varnothing D_s$	20 mm
Overall length L	104 mm
Flute length L_c	41 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	Full slot cutting depth $1 \times D$
Cutting width a_e for milling operation	$0.15 \times D$ for side milling
Cutting width a_e for milling operation	$0.1 \times D$
Through-coolant	no
Machining strategy	MTC
Machining strategy	TPC
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 20 mm	SZ2025 20

