

## Garant

### Solid carbide roughing end mill with internal coolant supply HPC, TiAlN, Ø d11 DC: 16 mm



#### Order data

Order number	205592 16
GTIN	4045197553188
Item class	11X

#### Description

##### Version:

##### With internal coolant supply.

The coolant is fed directly **to the cutting** edges.

This gives **longer tool-life** and **complete swarf evacuation**.

This is especially **important when milling slots or pockets**.

Tolerance nominal Ø: d11

No. of teeth Z: 4

Helix angle: 20 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

Overall length L: 92 mm

Shank Ø  $D_s$ : 16 mm

Corner chamfer width at 45°: 0.5 mm

Feed  $f_z$  for slot milling in steel < 900 N/mm<sup>2</sup>: 0.08 mm

#### Technical description

Feed $f_z$ for slot milling in steel < 900 N/mm <sup>2</sup>	0.08 mm
Corner chamfer width at 45°	0.5 mm
Feed $f_z$ for side milling in steel < 900 N/mm <sup>2</sup>	0.1 mm
No. of teeth Z	4

Cutting edge $\varnothing D_c$	16 mm
Shank $\varnothing D_s$	16 mm
Overall length L	92 mm
Flute length $L_c$	32 mm
Direction of infeed	horizontal, oblique and vertical
Shank	DIN 6535 HB to h6
Tolerance nominal $\varnothing$	d11
Helix angle	20 degrees
Corner chamfer angle	45 degrees
Coating	TiAlN
Tool material	Solid carbide
Standard	DIN 6527
Milling profile	HR
Cutting width $a_e$ for milling operation	0.3×D for side milling
Cutting width $a_e$ for milling operation	Full slot cutting depth 1×D
Through-coolant	yes
Machining strategy	HPC
Colour ring	green
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