

Garant
GARANT Master Steel SlotMachine solid carbide roughing end mill HPC, TiAlN, Ø d11 DC: 20 mm

Order data

Order number	205552 20
GTIN	4045197959911
Item class	11X

Description
Version:

With a new-type knurled profile, optimised for higher feed rates. Improved cutting edge protection thanks to slight edge honing. Tremendous bending strength due to the use of ultra-fine grain substrate.

Advantage:

The tool geometry produces particularly tightly rolled swarf that is discharged via flat chip breaker recesses. As a result, the tool maintains an extremely stable core. Plunge angle of up to 10° possible thanks to generous recess on the front face.

Application:

For roughing machining, particularly suitable for full-slot machining.

Tolerance nominal Ø: d11

No. of teeth Z: 5

Helix angle: 42 degrees

Direction of infeed: horizontal, oblique and vertical

Shank: DIN 6535 HB to h6

No. of teeth Z: 5

Flute length L_c : 41 mm

Overhang length L_1 incl. recess: 74 mm

Recess Ø D_1 : 18.5 mm

Overall length L: 126 mm

Shank Ø D_s : 20 mm

Technical description

Overall length L	126 mm
Flute length L_c	41 mm

Tolerance nominal \varnothing	d11
Shank $\varnothing D_s$	20 mm
Feed f_z for side milling in steel < 900 N/mm ²	0.13 mm
Direction of infeed	horizontal, oblique and vertical
Overhang length L_1 incl. recess	74 mm
Cutting edge $\varnothing D_c$	20 mm
No. of teeth Z	5
Shank	DIN 6535 HB to h6
Recess $\varnothing D_1$	18.5 mm
Feed f_z for slot milling in steel < 900 N/mm ²	0.09 mm
Helix angle	42 degrees
Corner chamfer width at 45°	1 mm
Corner chamfer angle	45 degrees
Series	GARANT Master Steel
Coating	TiAlN
Tool material	Solid carbide
Standard	Manufacturer's standard
Milling profile	NR
Spacing of the cutters	unequal spacing
Cutting width a_e for milling operation	Full slot cutting depth 1×D
Cutting width a_e for milling operation	0.4×D for side milling
Through-coolant	no
Machining strategy	HPC
Colour ring	green
Type of product	End mill