

Garant

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



Order data

Order number	205554 20
GTIN	4045197959997
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.

Problem-solver for TPC 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 : 60 mm

Overhang length L_1 incl. recess: 70 mm

Recess Ø D_1 : 18.5 mm

Overall length L: 126 mm

Shank Ø D_s : 20 mm

Technical description

Tolerance nominal Ø	d11
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Overall length L	126 mm
Overhang length L ₁ incl. recess	70 mm
Corner chamfer width at 45°	1 mm
Feed f _z for side milling in steel < 900 N/mm ²	0.1 mm
Recess Ø D ₁	18.5 mm
No. of teeth Z	5
Helix angle	42 degrees
Direction of infeed	horizontal, oblique and vertical
Flute length L _c	60 mm
Shank Ø D _s	20 mm
Cutting edge Ø D _c	20 mm
Shank	DIN 6535 HB to h6
Feed f _z for slot milling in steel < 900 N/mm ²	0.08 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