Garant

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



Order data

Order number	205550 20
GTIN	4045197814234
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.

Feed rate per tooth up to 0.1 mm up to a depth of 2×D (in the slot milled from solid).

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 \emptyset : 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: 38 mm Overhang length L₁ incl. recess: 52 mm Recess \emptyset D₁: 18.5 mm Overall length L: 104 mm Shank \emptyset D_s: 20 mm

Technical description

Feed f_z for side milling in steel < 900 N/mm²

0.13 mm

Direction of infeed	horizontal, oblique and vertical
Feed f_z for slot milling in steel < 900 N/mm ²	0.09 mm
Overall length L	104 mm
No. of teeth Z	5
Recess Ø D ₁	18.5 mm
Shank	DIN 6535 HB to h6
Cutting edge $Ø D_c$	20 mm
Shank Ø D _s	20 mm
Tolerance nominal Ø	d11
Flute length L _c	38 mm
Corner chamfer width at 45°	1 mm
Overhang length L ₁ incl. recess	52 mm
Helix angle	42 degrees
Corner chamfer angle	45 degrees
Series	GARANT Master Steel
Coating	TiAIN
Tool material	Solid carbide
Standard	DIN 6527
Milling profile	NR
Spacing of the cutters	unequal spacing
Cutting width a_e for milling operation	0.5×D for side milling
Cutting width a_e for milling operation	Full slot cutting depth 1×D
Through-coolant	no
Machining strategy	HPC
Colour ring	green
Type of product	End mill

Services

SZ2025 20

Shank clamping flats for shrink-fit chucks, with retainer function Shank \varnothing tool 20 mm