

Garant

GARANT Master Steel SlotMachine solid carbide roughing end mill with through-coolant HPC, TiAlN, Ø d11 DC: 12 mm



Order data

Order number	205551 12
GTIN	4062406111182
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).

With **internal coolant supply** for reliable swarf evacuation.

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 and oblique

Shank: DIN 6535 HB to h6

No. of teeth Z: 5

Flute length L_c: 26 mm

Overhang length L₁ incl. recess: 36 mm

Recess Ø D₁: 11.1 mm

Overall length L: 83 mm

Shank Ø D_s: 12 mm

Technical description

Corner chamfer width at 45°	0.6 mm
Feed f_z for slot milling in steel < 900 N/mm ²	0.065 mm
Direction of infeed	horizontal and oblique
Overall length L	83 mm
Helix angle	42 degrees
Feed f_z for side milling in steel < 900 N/mm ²	0.09 mm
Shank	DIN 6535 HB to h6
Flute length L_c	26 mm
Overhang length L_1 incl. recess	36 mm
No. of teeth Z	5
Recess $\varnothing D_1$	11.1 mm
Shank $\varnothing D_s$	12 mm
Tolerance nominal \varnothing	d11
Cutting edge $\varnothing D_c$	12 mm
Corner chamfer angle	45 degrees
Series	GARANT Master Steel
Coating	TiAlN
Tool material	Solid carbide
Standard	DIN 6527
Milling profile	NR
Spacing of the cutters	unequal spacing
Cutting width a_e for milling operation	0.4×D for side milling
Cutting width a_e for milling operation	0.05×D for copy milling
Through-coolant	yes
Machining strategy	HPC
Colour ring	green
Type of product	End mill

Services

Shank clamping flats for shrink-fit chucks, with retainer
function Shank \varnothing tool 12 mm

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