Garant

GARANT Master Steel SlotMachine solid carbide roughing end mill HPC, TiAlN, ∅ d11 DC: 6 mm

Order data

Order number	205550 6
GTIN	4045197813251
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 ∅: 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: 13 mm
Overhang length L_1 incl. recess: 19 mm
Recess ∅ D_1: 5.6 mm
Overall length L: 57 mm
Shank ∅ D_s: 6 mm

Technical description

Recess ∅ D_1	5.6 mm

Direction of infeed	horizontal, oblique and vertical
Flute length L_c	13 mm
Corner chamfer width at 45°	0.3 mm
Overhang length L_1 incl. recess	19 mm
Feed f_z for side milling in steel < 900 N/mm^2	0.045 mm
Cutting edge ⌀ D_C	6 mm
Shank ⌀ D_s	6 mm
Tolerance nominal ⌀	d11
No. of teeth Z	5
Feed f_z for slot milling in steel < 900 N/mm^2	0.035 mm
Shank	DIN 6535 HB to h6
Overall length L	57 mm
Helix angle	42 degrees
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	0.5×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