

Garant

GARANT Master INOX M SlotMachine solid carbide roughing end mill HPC, TiAlN, Ø d11 DC: 12 mm



Order data

Order number	205454 12
GTIN	4062406380700
Item class	11X

Description

Version:

With a **new-type knurled profile**, optimised for higher feed rates in INOX. Improved cutting edge protection thanks to slight edge honing. **Tremendous bending strength** due to the use of **ultra-fine grain substrate**. Number of teeth tailored to performance and process reliability.

Problem-solver for TPC machining. Ideal for automated production as the risk of chip accumulations in the machine is largely prevented.

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**.

Application:

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

Note:

h_{max} : The values stated in the table are maximum values.

$ae_{max} = 0.05 \times D$ for TPC machining.

Tolerance nominal Ø: d11

No. of teeth Z: 5

Helix angle: 40 degrees

Direction of infeed: horizontal, oblique and vertical

Shank: DIN 6535 HB to h6

No. of teeth Z: 5

Flute length L_c : 49 mm

Overhang length L_1 incl. recess: 56 mm

Recess Ø D_1 : 11.1 mm

Overall length L: 100 mm

Shank Ø D_s : 12 mm

Technical description

Tolerance nominal \varnothing	d11
Shank $\varnothing D_s$	12 mm
Corner chamfer width at 45°	0.25 mm
Overall length L	100 mm
Flute length L_c	49 mm
Average chip thickness h_{max} for TPC milling in INOX < 900 N/mm ²	0.054 mm
No. of teeth Z	5
Corner chamfer angle	45 degrees
Cutting edge $\varnothing D_c$	12 mm
Overhang length L_1 incl. recess	56 mm
Direction of infeed	horizontal, oblique and vertical
Helix angle	40 degrees
Shank	DIN 6535 HB to h6
Recess $\varnothing D_1$	11.1 mm
Series	GARANT Master INOX
Coating	TiAlN
Tool material	Solid carbide
Standard	Manufacturer's standard
Milling profile	NR
Cutting width a_e for milling operation	0.2×D for side milling
Cutting width a_e for milling operation	0.05×D
Through-coolant	no
Machining strategy	HPC
Colour ring	blue
Type of product	End mill

