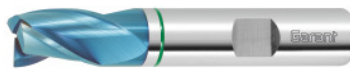


**Garant**
**GARANT Master Steel solid carbide mini-milling cutter HPC, TiAlN, Ø e8 DC: 12 mm**

**Order data**

Order number	202291 12
GTIN	4062406271831
Item class	11X

**Description**
**Version:**

**Extra short cutter** for maximum stability. **Shank length to DIN** for improved support of the tool in the holder. This significantly increases the tool life.

**Save the regrinding costs:** It is cheaper to use a carbide mini slot drill to the limit of wear and throw it away, than to regrind it.

Tool for **general-purpose machining**.

Tolerance nominal Ø: e8

No. of teeth Z: 3

Helix angle: 30 degrees

Direction of infeed: horizontal, oblique and vertical

Shank: DIN 6535 HB to h6

No. of teeth Z: 3

Flute length  $L_c$ : 16 mm

Overall length L: 73 mm

Shank Ø  $D_s$ : 12 mm

Feed  $f_z$  for slot milling in steel < 900 N/mm<sup>2</sup>: 0.06 mm

Feed  $f_z$  for side milling in steel < 900 N/mm<sup>2</sup>: 0.07 mm

**Technical description**

Tolerance nominal Ø	e8
Shank Ø $D_s$	12 mm
Shank	DIN 6535 HB to h6

Cutting edge $\varnothing D_c$	12 mm
Overall length L	73 mm
Feed $f_z$ for side milling in steel < 900 N/mm <sup>2</sup>	0.07 mm
Feed $f_z$ for slot milling in steel < 900 N/mm <sup>2</sup>	0.06 mm
Helix angle	30 degrees
Direction of infeed	horizontal, oblique and vertical
No. of teeth Z	3
Flute length $L_c$	16 mm
Corner chamfer angle	90 degrees
Series	GARANT Master Steel
Coating	TiAlN
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	N
Helix angle characteristic	unequal spacing
Cutting width $a_e$ for milling operation	Full slot cutting depth $1 \times D$
Cutting width $a_e$ for milling operation	Full slot cutting depth $1 \times D$
Through-coolant	no
Machining strategy	HPC
Colour ring	green
Type of product	End mill