

**Garant**
**GARANT Master INOX solid carbide slot drill HPC, TiAlN, Ø e8 DC: 12mm**

**Order data**

Order number	201647 12
GTIN	4062406113520
Item class	11X

**Description**
**Version:**

**Double** relief ground **2 chamfers hollow ground** for use in **HPC applications**.

Greater oxidation resistance and high-temperature hardness.

Can be used at high cutting speeds, particularly suitable even for Toolox®.

**Note:**

**Successor product to No. 201644.**

**Technical description**

Helix angle	50 degrees
Shank	DIN 6535 HA to h6
Cutting edge Ø D <sub>c</sub>	12 mm
Feed f <sub>z</sub> for slot milling in stainless steel < 900 N/mm <sup>2</sup>	0.07 mm
Corner chamfer width at 45°	0.25 mm
Overhang length L <sub>1</sub> incl. recess	38 mm
Direction of infeed	horizontal, oblique and vertical
Recess Ø D <sub>1</sub>	11.8 mm
Flute length L <sub>c</sub>	26 mm
Overall length L	83 mm
Shank Ø D <sub>s</sub>	12 mm

Feed $f_z$ for side milling in INOX < 900 N/mm <sup>2</sup>	0.08 mm
No. of teeth Z	2
Tolerance nominal $\varnothing$	e8
Corner chamfer angle	45 degrees
Series	Master INOX
Coating	TiAlN
Tool material	solid carbide
Standard	DIN 6527
Type	N
Cutting width $a_e$ for milling operation	Full slot cutting depth 1xD
Cutting width $a_e$ for milling operation	Full slot cutting depth 1xD
Through-coolant	no
Machining strategy	HPC
Colour ring	blue
Type of product	End / face mill

## User data

	Suitability	$V_c$	ISO code
Steel < 500 N/mm <sup>2</sup>	suitable	250 m/min	P
Steel < 750 N/mm <sup>2</sup>	suitable	230 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	200 m/min	P
Steel < 1100 N/mm <sup>2</sup>	suitable	170 m/min	P
Steel < 1400 N/mm <sup>2</sup>	suitable	170 m/min	P
TOOLOX 33	suitable	115 m/min	H
TOOLOX 44	suitable	80 m/min	H
INOX < 900 N/mm <sup>2</sup>	suitable	110 m/min	M
INOX > 900 N/mm <sup>2</sup>	suitable	90 m/min	M
Uni	Suitable only under restricted conditions		

wet maximum	suitable
wet minimum	suitable only under restricted conditions
Air	suitable only under restricted conditions
<b>Services</b>	
Shank grinding Type HB	129100 HB