

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



Order data

Order number	205448 12
GTIN	4062406276027
Item class	11X

Description

Version:

With a **new-type knuckle form 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.

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.

Recommendation:

To ensure reliable working, particularly for full slot milling, use arbors with **4 cooling channel bores**.

Tolerance nominal Ø: d11

No. of teeth Z: 5 Helix angle: 40 °

Direction of infeed: horizontal, oblique and vertical

Shank: DIN 6535 HB to h6

No. of teeth Z: 5 Flute length L_c : 16 mm Overall length L: 73 mm Shank \emptyset D_s: 12 mm

Corner chamfer width at 45°: 0.25 mm

Feed f_z for slot milling in stainless steel > 900 N/mm²: 0.04 mm

Technical description

No. of teeth Z	5		
Feed f_z for slot milling in stainless steel > 900 N/mm ²	0.04 mm		
Direction of infeed	horizontal, oblique and vertical		
Helix angle	40 °		
Corner chamfer width at 45°	0.25 mm		
Flute length L _c	16 mm		
Overall length L	73 mm		
Tolerance nominal Ø	d11		
Corner chamfer angle	45 °		
Cutting edge \emptyset D _c	12 mm		
Shank Ø D _s	12 mm		
Feed f_z for side milling in INOX > 900 N/mm ²	0.05 mm		
Shank	DIN 6535 HB to h6		
Series	Master Inox		
Coating	TiAIN		
Tool material	Solid carbide		
Standard	DIN 6527		
Milling profile	NR		
Cutting width a _e for milling operation	Full slot cutting depth 1×D		
Cutting width a _e for milling operation	0.5×D for side milling		
Through-coolant	no		
Machining strategy	HPC		
Colour ring	blue		
Type of product	End / face mill		

User data

	Suitability	\mathbf{V}_{c}	ISO code
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Steel < 500 N/mm ²	suitable only under restricted conditions	150 m/min	Р
Steel < 750 N/mm ²	suitable	140 m/min	Р
Steel < 900 N/mm ²	suitable	120 m/min	Р
Steel < 1100 N/mm ²	suitable only under restricted conditions	110 m/min	Р
Steel < 1400 N/mm ²	suitable only under restricted conditions	100 m/min	Р
INOX < 900 N/mm ²	suitable	90 m/min	М
INOX > 900 N/mm ²	suitable	80 m/min	М
Uni	suitable only under restricted conditions		
wet maximum	suitable		
wet minimum	suitable only under restricted conditions		
Air	Suitable only under restricted conditions		