

GARANT Master Steel SlotMachine solid carbide roughing end mill with through-coolant HPC, TiAIN, Ø d11 DC: 4mm



Order data

Order number	205551 4
GTIN	4062406111137
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 ultrafine grain substrate.

Feed rate per tooth up to 0.1 mm up to a depth of 2×D (in the slot milled from solid).

With **internal coolant supply** for reliable swarf evacuation.

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.

Technical description

Overall length L	57 mm		
Overhang length L ₁ incl. recess	19 mm		
Recess Ø D ₁	3.7 mm		
Tolerance nominal Ø	d11		
Shank Ø D _s	6 mm		
Direction of infeed	horizontal and oblique		
No. of teeth Z	5		

Feed f_z for slot milling in steel < 900 N/mm ²	0.02 mm		
Corner chamfer width at 45°	0.2 mm		
Helix angle	42 degrees		
Cutting edge Ø D _c	4 mm		
Flute length L _c	11 mm		
Shank	DIN 6535 HB to h6		
Feed f_z for side milling in steel < 900 N/mm ²	0.03 mm		
Corner chamfer angle	45 degrees		
Series	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	0.4×D for side milling		
Cutting width a _e for milling operation	0.05×D for copy milling		
Through-coolant	yes		
Machining strategy	HPC		
Colour ring	green		
Type of product	End / face mill		

User data

	Suitability	\mathbf{V}_{c}	ISO code
Steel < 500 N/mm ²	suitable	200 m/min	Р
Steel < 750 N/mm ²	suitable	180 m/min	Р
Steel < 900 N/mm ²	suitable	160 m/min	Р
Steel < 1100 N/mm ²	suitable	140 m/min	Р
Steel < 1400 N/mm ²	suitable	110 m/min	Р
INOX < 900 N/mm ²	suitable	50 m/min	М

$INOX > 900 \text{ N/mm}^2$	suitable	35 m/min	М
GG(G)	suitable	200 m/min	K
Uni	suitable		
wet maximum	suitable		
Air	suitable		