

Garant

GARANT Master Steel SlotMachine solid carbide roughing end mill HPC, TiAlN, Ø d11 DC: 16mm



Order data

Order number	205552 16
GTIN	4045197959904
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 ultra-fine grain substrate.

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

Feed f_z for side milling in steel < 900 N/mm ²	0.1 mm
Flute length L_c	36 mm
Overhang length L_1 incl. recess	58 mm
Feed f_z for slot milling in steel < 900 N/mm ²	0.07 mm
Shank	DIN 6535 HB to h6
Corner chamfer width at 45°	0.8 mm
Direction of infeed	horizontal, oblique and vertical
Helix angle	42 degrees
No. of teeth Z	5

Recess $\varnothing D_1$	14.8 mm
Shank $\varnothing D_s$	16 mm
Overall length L	108 mm
Cutting edge $\varnothing D_c$	16 mm
Tolerance nominal \varnothing	d11
Corner chamfer angle	45 degrees
Series	Master Steel
Coating	TiAlN
Tool material	Solid carbide
Standard	Manufacturer's standard
Milling profile	NR
Spacing of the cutters	unequal spacing
Cutting width a_e for milling operation	Full slot cutting depth $1 \times D$
Cutting width a_e for milling operation	$0.4 \times D$ for side milling
Through-coolant	no
Machining strategy	HPC
Colour ring	green
Type of product	End / face mill

User data

	Suitability	V_c	ISO code
Steel < 500 N/mm ²	suitable	200 m/min	P
Steel < 750 N/mm ²	suitable	180 m/min	P
Steel < 900 N/mm ²	suitable	160 m/min	P
Steel < 1100 N/mm ²	suitable	140 m/min	P
Steel < 1400 N/mm ²	suitable	110 m/min	P
INOX < 900 N/mm ²	suitable	50 m/min	M
INOX > 900 N/mm ²	suitable	35 m/min	M
GG(G)	suitable	200 m/min	K

Uni	suitable
wet maximum	suitable
Air	suitable