

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

Order data

Order number	205556 16
GTIN	4062406112158
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.

Note:

Particularly long neck recess for avoiding interference contours.

With conically increasing recess to guarantee stability at long overhangs.

Technical description

Flute length L_c	36 mm
Direction of infeed	horizontal, oblique and vertical
Overhang length L_1 incl. recess	100 mm
Shank $\varnothing D_s$	16 mm
minimum shank recess dia. D_5	14.4 mm
No. of teeth Z	5
maximum shank recess dia. D_6	15.5 mm

Corner chamfer width at 45°	0.8 mm
Helix angle	42 degrees
Shank	DIN 6535 HB to h6
Tolerance nominal \varnothing	d11
Feed f_z for side milling in steel < 900 N/mm ²	0.09 mm
Cutting edge $\varnothing D_c$	16 mm
Overall length L	150 mm
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	0.3×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	180 m/min	P
Steel < 750 N/mm ²	suitable	170 m/min	P
Steel < 900 N/mm ²	suitable	150 m/min	P
Steel < 1100 N/mm ²	suitable	130 m/min	P
Steel < 1400 N/mm ²	suitable	100 m/min	P
INOX < 900 N/mm ²	suitable	45 m/min	M
INOX > 900 N/mm ²	suitable	30 m/min	M

GG(G)	suitable	180 m/min	K
Uni	suitable		
wet maximum	suitable		
wet minimum	suitable only under restricted conditions		
dry	suitable		
Air	suitable		