

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

Order data

Order number	205557 16
GTIN	4062406377069
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.

Problem-solver for TPC machining.

Technical description

Cutting edge Ø D _c	16 mm
Feed f _z for side milling in steel < 900 N/mm ²	0.09 mm
Shank Ø D _s	16 mm
Flute length L _c	80 mm
Corner chamfer width at 45°	0.8 mm
No. of teeth Z	5
Tolerance nominal Ø	d11
Direction of infeed	horizontal, oblique and vertical

Helix angle	42 degrees
Corner chamfer angle	45 degrees
Overall length L	136 mm
Shank	DIN 6535 HB to h6
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	$0.2 \times D$ for side milling
Through-coolant	no
Machining strategy	TPC
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	160 m/min	P
Steel < 750 N/mm ²	suitable	150 m/min	P
Steel < 900 N/mm ²	suitable	130 m/min	P
Steel < 1100 N/mm ²	suitable	110 m/min	P
Steel < 1400 N/mm ²	suitable	80 m/min	P
INOX < 900 N/mm ²	suitable	40 m/min	M
INOX > 900 N/mm ²	suitable	25 m/min	M
GG(G)	suitable	160 m/min	K
Uni	suitable		
wet maximum	suitable		

wet minimum	suitable only under restricted conditions
dry	suitable
Air	suitable