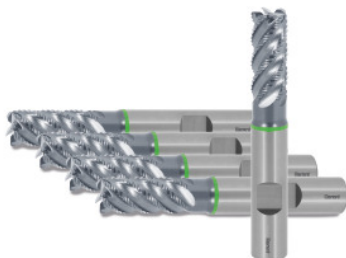


Garant**Value pack GARANT Master Steel SlotMachine solid carbide roughing end mill HPC, 5 pieces, Ø d11 DC: 20mm****Order data**

Order number	GG1050 20
GTIN	4067263134985
Item class	GGN

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.

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

Same as 205550.

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

No. of teeth Z	5
Shank	DIN 6535 HB to h6
Shank $\varnothing D_s$	20 mm

Overall length L	104 mm
Tolerance nominal \varnothing	d11
Recess $\varnothing D_1$	18.5 mm
Corner chamfer angle	45 degrees
Feed f_z for slot milling in steel < 900 N/mm ²	0.09 mm
Flute length L_c	38 mm
Direction of infeed	horizontal, oblique and vertical
Cutting edge $\varnothing D_c$	20 mm
Feed f_z for side milling in steel < 900 N/mm ²	0.13 mm
Helix angle	42 degrees
Overhang length L_1 incl. recess	52 mm
Corner chamfer width at 45°	1 mm
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	0.3×D for side milling
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	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		
wet minimum	suitable only under restricted conditions		
dry	suitable		
Air	suitable		

Accessories

GARANT Master Steel SlotMachine solid carbide roughing end millHPC Ø d11 DC 20 mm

205550 20