

## Garant

### GARANT Master Steel PickPocket solid carbide roughing end mill HPC, TiAlN, Ø f8 DC: 20mm



#### Order data

Order number	202402 20
GTIN	4045197853783
Item class	11X

#### Description

##### Version:

For **roughing and finishing**

With corner radii similar to torus cutters.

Up to 1×D into solid material **at very high feed rates** with smooth cutting action.

Corner radii matched to DIN specifications for **drive keyways**.

##### Advantage:

Optimised flute form, eccentric relief ground, wide chip space.

#### Technical description

Flute length $L_c$	20 mm
Direction of infeed	horizontal, oblique and vertical
Cutting edge $\varnothing D_c$	20 mm
Overall length L	92 mm
Feed $f_z$ for slot milling in steel < 900 N/mm <sup>2</sup>	0.1 mm
Shank $\varnothing D_s$	20 mm
No. of teeth Z	3
Feed $f_z$ for side milling in steel < 900 N/mm <sup>2</sup>	0.13 mm
Shank	DIN 6535 HB to h6
Tolerance nominal $\varnothing$	f8

Helix angle	38 degrees
Corner rounding $r_v$	0.5 mm
Series	Master Steel
Coating	TiAlN
Tool material	Solid carbide
Standard	DIN 6527
Type	N
Helix angle characteristic	unequal spacing
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 <sup>2</sup>	suitable	260 m/min	P
Steel < 750 N/mm <sup>2</sup>	suitable	240 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	190 m/min	P
Steel < 1100 N/mm <sup>2</sup>	suitable	180 m/min	P
Steel < 1400 N/mm <sup>2</sup>	suitable only under restricted conditions	150 m/min	P
INOX < 900 N/mm <sup>2</sup>	suitable	80 m/min	M
INOX > 900 N/mm <sup>2</sup>	suitable	70 m/min	M
GG(G)	suitable	250 m/min	K
Uni	suitable		
wet maximum	suitable		

wet minimum	suitable only under restricted conditions
dry	suitable
Air	suitable