

Garant
GARANT Master Steel solid carbide roughing end mill HPC, TiAlN, Ø f8 DC: 10mm

Order data

Order number	203034 10
GTIN	4045197718570
Item class	11X

Description
Version:

For **roughing and finishing**.

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

At maximum machining depths, ensure compliance with the ratio dimension L_c (cutting length) / \varnothing (nominal size)!

Advantage:

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

Tolerance nominal \varnothing : f8

No. of teeth Z: 4

Helix angle: 38°

Direction of infeed: horizontal, oblique and vertical

Shank: DIN 6535 HB to h6

No. of teeth Z: 4

Flute length L_c : 14 mm

Overall length L: 66 mm

Shank $\varnothing D_s$: 10 mm

Corner chamfer width at 45° : 0.2 mm

Feed f_z for slot milling in steel $< 900 \text{ N/mm}^2$: 0.06 mm

Technical description

Feed f_z for slot milling in steel $< 900 \text{ N/mm}^2$	0.06 mm
Corner chamfer width at 45°	0.2 mm
No. of teeth Z	4

Cutting edge $\varnothing D_c$	10 mm
Feed f_z for side milling in steel $< 900 \text{ N/mm}^2$	0.08 mm
Shank $\varnothing D_s$	10 mm
Overall length L	66 mm
Flute length L_c	14 mm
Direction of infeed	horizontal, oblique and vertical
Shank	DIN 6535 HB to h6
Tolerance nominal \varnothing	f8
Helix angle	38°
Corner chamfer angle	45°
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	$0.5 \times D$ for side milling
Cutting width a_e for milling operation	Full slot cutting depth $1 \times D$
Through-coolant	no
Machining strategy	HPC
Colour ring	green
Type of product	End / face mill

User data

	Suitability	V_c	ISO code
Steel $< 500 \text{ N/mm}^2$	suitable	260 m/min	P
Steel $< 750 \text{ N/mm}^2$	suitable	240 m/min	P
Steel $< 900 \text{ N/mm}^2$	suitable	190 m/min	P

Steel < 1100 N/mm ²	suitable	180 m/min	P
Steel < 1400 N/mm ²	suitable only under restricted conditions	150 m/min	P
INOX < 900 N/mm ²	suitable	80 m/min	M
INOX > 900 N/mm ²	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		