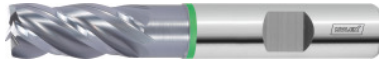



**HOLEX Pro Steel solid carbide roughing end mill HPC, TiAlN, Ø DC: 12mm**

**Order data**

Order number	203054 12
GTIN	4045197713032
Item class	12X

**Description**
**Version:**

For **roughing and finishing**.

Up to 1×D into solid material **at very high feed rates** with smooth cutting action. Dimensions to **manufacturer's standard**.

**Advantage:**

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

**Technical description**

Corner chamfer width at 45°	0.3 mm
Cutting edge Ø D <sub>c</sub>	12 mm
Feed f <sub>z</sub> for slot milling in steel < 900 N/mm <sup>2</sup>	0.07 mm
Feed f <sub>z</sub> for side milling in steel < 900 N/mm <sup>2</sup>	0.09 mm
Recess Ø D <sub>1</sub>	11.5 mm
No. of teeth Z	4
Overhang length L <sub>1</sub> incl. recess	38 mm
Shank Ø D <sub>s</sub>	12 mm
Overall length L	83 mm
Flute length L <sub>c</sub>	26 mm
Direction of infeed	horizontal, oblique and vertical
Shank	HB with h6

Tolerance nominal $\varnothing$	0 / -0.03
Helix angle	38 degrees
Corner chamfer angle	45 degrees
Series	Pro Steel
Coating	TiAlN
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	N
Helix angle characteristic	unequal spacing
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	Full slot cutting depth 1×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 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	180 m/min	P
Steel < 1100 N/mm <sup>2</sup>	suitable	160 m/min	P
INOX < 900 N/mm <sup>2</sup>	suitable only under restricted conditions	80 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