


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

**Order data**

Order number	203056 12
GTIN	4045197713131
Item class	12X

**Description**
**Version:**

For **roughing and finishing**.

Up to  $0.7 \times D$  into solid material **at very high feed rates** with smooth cutting action.

**Advantage:**

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

Tolerance nominal  $\varnothing$ : 0 / -0.03

No. of teeth Z: 4

Helix angle: 38 degrees

Direction of infeed: horizontal, oblique and vertical

Shank: DIN 6535 HB to h6

No. of teeth Z: 4

Flute length  $L_c$ : 26 mm

Overhang length  $L_1$  incl. recess: 48 mm

Recess  $\varnothing D_1$ : 11.5 mm

Overall length L: 93 mm

Shank  $\varnothing D_s$ : 12 mm

**Technical description**

Cutting edge $\varnothing D_c$	12 mm
No. of teeth Z	4
Corner chamfer width at 45°	0.3 mm
Feed $f_z$ for side milling in steel < 900 N/mm <sup>2</sup>	0.09 mm
Recess $\varnothing D_1$	11.5 mm
Overhang length $L_1$ incl. recess	48 mm

Feed $f_z$ for slot milling in steel < 900 N/mm <sup>2</sup>	0.07 mm
Shank $\varnothing D_s$	12 mm
Overall length L	93 mm
Flute length $L_c$	26 mm
Direction of infeed	horizontal, oblique and vertical
Shank	DIN 6535 HB to h6
Tolerance nominal $\varnothing$	0 / -0.03
Helix angle	38 degrees
Corner chamfer angle	45 degrees
Series	HOLEX Pro Steel
Coating	TiAlN
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	N
Spacing of the cutters	unequal spacing
Cutting width $a_e$ for milling operation	0.25×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 mill

## Services

Shank clamping flats for shrink-fit chucks, with retainer function Shank  $\varnothing$  tool 12 mm

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