


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

**Order data**

Order number	203058 12
GTIN	4045197946294
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, generous chip spaces.

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  $L_c$ : 36 mm

Overhang length  $L_1$  incl. recess: 46 mm

Recess  $\varnothing D_1$ : 11.5 mm

Overall length L: 93 mm

Shank  $\varnothing D_s$ : 12 mm

**Technical description**

Overhang length $L_1$ incl. recess	46 mm
Overall length L	93 mm
Shank	DIN 6535 HB to h6
Cutting edge $\varnothing D_c$	12 mm
Recess $\varnothing D_1$	11.5 mm
Tolerance nominal $\varnothing$	0 / -0.03

Flute length $L_c$	36 mm
Feed $f_z$ for side milling in steel $< 900 \text{ N/mm}^2$	0.09 mm
Feed $f_z$ for slot milling in steel $< 900 \text{ N/mm}^2$	0.07 mm
Corner chamfer width at $45^\circ$	0.3 mm
Direction of infeed	horizontal, oblique and vertical
Helix angle	38 degrees
Shank $\varnothing D_s$	12 mm
No. of teeth $Z$	4
Corner chamfer angle	45 degrees
Series	HOLEX 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	$0.25 \times D$ 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 mill