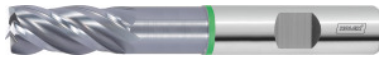



**HOLEX Pro Steel solid carbide roughing end mill HPC, TiAlN, Ø DC: 20mm**

**Order data**

Order number	203056 20
GTIN	4045197713155
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:  $38^\circ$

Direction of infeed: horizontal, oblique and vertical

Shank: DIN 6535 HB to h6

No. of teeth Z: 4

Flute length  $L_c$ : 38 mm

Overhang length  $L_1$  incl. recess: 70 mm

Recess  $\varnothing D_1$ : 19.5 mm

Overall length L: 126 mm

Shank  $\varnothing D_s$ : 20 mm

**Technical description**

Recess $\varnothing D_1$	19.5 mm
Feed $f_z$ for side milling in steel $< 900 \text{ N/mm}^2$	0.13 mm
Corner chamfer width at $45^\circ$	0.5 mm
Feed $f_z$ for slot milling in steel $< 900 \text{ N/mm}^2$	0.1 mm
Overhang length $L_1$ incl. recess	70 mm

No. of teeth Z	4
Cutting edge $\varnothing D_c$	20 mm
Shank $\varnothing D_s$	20 mm
Overall length L	126 mm
Flute length $L_c$	38 mm
Direction of infeed	horizontal, oblique and vertical
Shank	DIN 6535 HB to h6
Tolerance nominal $\varnothing$	0 / -0.03
Helix angle	38 °
Corner chamfer angle	45 °
Series	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 / 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		

**Services**

Shank clamping flats for shrink-fit chucks, with retainer function Shank Ø tool 20 mm

SZ2025 20