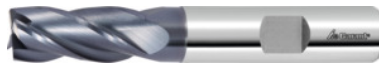


**Garant**
**Solid carbide milling cutter, TiAlN, Ø e8 DC: 12 mm**

**Order data**

Order number	202720 12
GTIN	4045197117915
Item class	11X

**Description**
**Version:**

Double relief ground side clearance angle.

Through-coolant: no

Tolerance nominal Ø: e8

No. of teeth Z: 4

Helix angle: 30 degrees

Direction of infeed: horizontal, oblique and vertical

Shank: DIN 6535 HB to h6

No. of teeth Z: 4

Flute length  $L_c$ : 28 mm

Overhang length  $L_1$  incl. recess: 38 mm

Recess Ø  $D_1$ : 11.8 mm

Overall length L: 84 mm

Shank Ø  $D_s$ : 12 mm

**Technical description**

Cutting edge Ø $D_c$	12 mm
Feed $f_z$ for side milling in steel < 900 N/mm <sup>2</sup>	0.08 mm
Recess Ø $D_1$	11.8 mm
Shank form	HB
No. of teeth Z	4
Feed $f_z$ for slot milling in steel < 900 N/mm <sup>2</sup>	0.06 mm
Overhang length $L_1$ incl. recess	38 mm

Corner chamfer width at 45°	0.13 mm
Shank $\varnothing D_s$	12 mm
Overall length L	84 mm
Flute length $L_c$	28 mm
Direction of infeed	horizontal, oblique and vertical
Shank	DIN 6535 HB to h6
Tolerance nominal $\varnothing$	e8
Helix angle	30 degrees
Corner chamfer angle	45 degrees
Coating	TiAlN
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	H
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
Colour ring	without
Type of product	End mill

## Services

Shank recess Type FRST	209900 FRST
Shank clamping flats for shrink-fit chucks, with retainer function Shank $\varnothing$ tool 12 mm	SZ2025 12