

**Garant**
**Solid carbide milling cutter, TiAlN, Ø e8 DC: 20 mm**

**Order data**

Order number	202720 20
GTIN	4045197117977
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  $L_c$ : 41 mm  
 Overhang length  $L_1$  incl. recess: 50 mm  
 Recess Ø  $D_1$ : 19.8 mm  
 Overall length L: 104 mm  
 Shank Ø  $D_s$ : 20 mm

**Technical description**

Cutting edge Ø $D_c$	20 mm
Corner chamfer width at 45°	0.2 mm
Overhang length $L_1$ incl. recess	50 mm
Recess Ø $D_1$	19.8 mm
Feed $f_z$ for slot milling in steel < 900 N/mm <sup>2</sup>	0.1 mm
Feed $f_z$ for side milling in steel < 900 N/mm <sup>2</sup>	0.12 mm
Shank form	HB

No. of teeth Z	4
Shank $\varnothing$ D <sub>s</sub>	20 mm
Overall length L	104 mm
Flute length L <sub>c</sub>	41 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 <sub>e</sub> for milling operation	0.3×D for side milling
Cutting width a <sub>e</sub> 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 20 mm	SZ2025 20