

**Garant**
**Solid carbide high precision milling cutter, TiAlN, Ø f8 DC: 16mm**

**Order data**

Order number	203540 16
GTIN	4045197509925
Item class	11X

**Description**
**Version:**

**High stability** and **extremely smooth cutting action** due to at least 6 teeth. **Eccentric relief ground.**

Extremely **high taper accuracy with tolerances in the µm range**, for **precise 90° angles** and plane-parallel surfaces in profile milling.

**For the most demanding angular accuracy.**

Cutter corner chamfer undefined due to eccentric relief grinding.

**With maximum 0.014 mm tapering.**

**Application:**

**For peripheral milling** as a **finishing operation.**

**Technical description**

No. of teeth Z	8
Cutting edge Ø D <sub>c</sub>	16 mm
Feed f <sub>z</sub> for side milling in steel < 900 N/mm <sup>2</sup>	0.08 mm
Shank Ø D <sub>s</sub>	16 mm
Overall length L	150 mm
Flute length L <sub>c</sub>	85 mm
Direction of infeed	horizontal
Shank	DIN 6535 HA to h6
Tolerance nominal Ø	f8
Balance quality with shank	G 2.5 with HA

Helix angle	45 degrees
Corner chamfer angle	90 degrees
Coating	TiAlN
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	N
Helix angle characteristic	unequal spacing
Spacing of the cutters	unequal spacing
Milling application	Mono milling tools high-precision 90°
Cutting width $a_e$ for milling operation	0.05×D for side milling
Through-coolant	no
Colour ring	green
Type of product	End / face mill

## User data

	Suitability	$V_c$	ISO code
Steel < 500 N/mm <sup>2</sup>	suitable	200 m/min	P
Steel < 750 N/mm <sup>2</sup>	suitable	160 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	140 m/min	P
Steel < 1100 N/mm <sup>2</sup>	suitable	115 m/min	P
Steel < 1400 N/mm <sup>2</sup>	suitable	100 m/min	P
Steel < 55 HRC	suitable only under restricted conditions	40 m/min	H
INOX < 900 N/mm <sup>2</sup>	suitable	80 m/min	M
INOX > 900 N/mm <sup>2</sup>	suitable only under restricted conditions	65 m/min	M
GG(G)	suitable only under restricted conditions	175 m/min	K
Uni	suitable		
wet maximum	suitable		

wet minimum	suitable only under restricted conditions
dry	suitable only under restricted conditions
Air	suitable only under restricted conditions
<b>Services</b>	
Shank grinding Type HB	129100 HB