

**Garant**
**Solid carbide roughing end mill MTC, TiAlN, Ø d11 DC: 10mm**

**Order data**

Order number	205712 10
GTIN	4045197362681
Item class	11X

**Description**
**Version:**

Dimensions similar to DIN 6527.

**Optimised special knuckle profile for roughing.**

Very **high rate of metal removal**.

With **special internal tooth profile** and 50° flutes for reliable chip breaking in **stainless steels**.

**Application:**

Especially for **MTC (Multi Task Cutting)** use on the new generation of turning / milling centres.

**Technical description**

Recess Ø D <sub>1</sub>	9.5 mm
Overhang length L <sub>1</sub> incl. recess	32 mm
No. of teeth Z	4
Cutting edge Ø D <sub>c</sub>	10 mm
Corner chamfer width at 45°	0.2 mm
Feed f <sub>z</sub> for slot milling in stainless steel > 900 N/mm <sup>2</sup>	0.025 mm
Feed f <sub>z</sub> for side milling in INOX > 900 N/mm <sup>2</sup>	0.04 mm
Shank Ø D <sub>s</sub>	10 mm
Overall length L	73 mm
Flute length L <sub>c</sub>	20 mm
Direction of infeed	horizontal, oblique and vertical

Shank	DIN 6535 HB to h6
Tolerance nominal $\varnothing$	d11
Helix angle	50 degrees
Corner chamfer angle	45 degrees
Coating	TiAlN
Tool material	Solid carbide
Standard	DIN 6527
Milling profile	HR
Cutting width $a_e$ for milling operation	0.5×D for side milling
Cutting width $a_e$ for milling operation	Full slot cutting depth 1×D
Through-coolant	no
Machining strategy	MTC
Colour ring	blue
Type of product	End / face mill

## User data

	Suitability	$V_c$	ISO code
Steel < 500 N/mm <sup>2</sup>	suitable	180 m/min	P
Steel < 750 N/mm <sup>2</sup>	suitable	170 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	170 m/min	P
Steel < 1100 N/mm <sup>2</sup>	suitable	140 m/min	P
INOX < 900 N/mm <sup>2</sup>	suitable	100 m/min	M
INOX > 900 N/mm <sup>2</sup>	suitable	80 m/min	M
wet maximum	suitable		
wet minimum	suitable only under restricted conditions		
dry	suitable only under restricted conditions		
Air	Suitable only under restricted conditions		

