

**Garant**
**Solid carbide roughing end mill MTC, TiAlN, Ø d11 DC: 16mm**

**Order data**

Order number	205718 16
GTIN	4045197362919
Item class	11X

**Description**
**Version:**

Dimensions similar to DIN 6527.

**Optimised special knuckle profile for roughing.**

**Very high rate of metal removal.**

Can be used as a **universal end mill**.

**Application:**

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

**Technical description**

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>	0.072 mm
Feed f <sub>z</sub> for slot milling in steel < 900 N/mm <sup>2</sup>	0.065 mm
Recess Ø D <sub>1</sub>	15.5 mm
No. of teeth Z	5
Overhang length L <sub>1</sub> incl. recess	100 mm
Corner chamfer width at 45°	0.35 mm
Shank Ø D <sub>s</sub>	16 mm
Overall length L	150 mm
Flute length L <sub>c</sub>	32 mm
Direction of infeed	horizontal, oblique and vertical
Shank	DIN 6535 HB to h6

Tolerance nominal $\varnothing$	d11
Helix angle	45 degrees
Corner chamfer angle	45 degrees
Coating	TiAlN
Tool material	Solid carbide
Standard	Manufacturer's standard
Milling profile	HR
Cutting width $a_e$ for milling operation	0.1×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	green
Type of product	End / face mill

## User data

	Suitability	$V_c$	ISO code
Steel < 500 N/mm <sup>2</sup>	suitable only under restricted conditions	120 m/min	P
Steel < 750 N/mm <sup>2</sup>	suitable	95 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	85 m/min	P
Steel < 1100 N/mm <sup>2</sup>	suitable	80 m/min	P
Steel < 1400 N/mm <sup>2</sup>	suitable	70 m/min	P
TOOLOX 33	suitable	70 m/min	H
TOOLOX 44	suitable	60 m/min	H
INOX < 900 N/mm <sup>2</sup>	suitable only under restricted conditions	50 m/min	M
INOX > 900 N/mm <sup>2</sup>	suitable only under restricted conditions	35 m/min	M
GG(G)	suitable	70 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