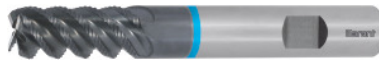


**Garant**
**Solid carbide roughing end mill MTC, TiAlN, Ø d11 DC: 20mm**

**Order data**

Order number	205712 20
GTIN	4045197362711
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**

Overhang length $L_1$ incl. recess	54 mm
Recess $\varnothing D_1$	19.5 mm
Feed $f_z$ for side milling in INOX > 900 N/mm <sup>2</sup>	0.08 mm
Corner chamfer width at 45°	0.4 mm
Cutting edge $\varnothing D_c$	20 mm
No. of teeth Z	5
Feed $f_z$ for slot milling in stainless steel > 900 N/mm <sup>2</sup>	0.05 mm
Shank $\varnothing D_s$	20 mm
Overall length L	104 mm
Flute length $L_c$	40 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		

