

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

Order data

Order number	205718 20
GTIN	4045197362926
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 _c	20 mm
Corner chamfer width at 45°	0.4 mm
No. of teeth Z	5
Feed f _z for slot milling in steel < 900 N/mm ²	0.08 mm
Overhang length L ₁ incl. recess	100 mm
Recess Ø D ₁	19.5 mm
Feed f _z for side milling in steel < 900 N/mm ²	0.096 mm
Shank Ø D _s	20 mm
Overall length L	150 mm
Flute length L _c	40 mm
Direction of infeed	horizontal, oblique and vertical
Shank	DIN 6535 HB to h6

Tolerance nominal Ø	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 ²	suitable only under restricted conditions	120 m/min	P
Steel < 750 N/mm ²	suitable	95 m/min	P
Steel < 900 N/mm ²	suitable	85 m/min	P
Steel < 1100 N/mm ²	suitable	80 m/min	P
Steel < 1400 N/mm ²	suitable	70 m/min	P
TOOLOX 33	suitable	70 m/min	H
TOOLOX 44	suitable	60 m/min	H
INOX < 900 N/mm ²	suitable only under restricted conditions	50 m/min	M
INOX > 900 N/mm ²	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