

Garant

Solid carbide roughing end mill with internal coolant supply MTC, TiAlN, Ø d11 DC: 20mm



Order data

Order number	205716 20
GTIN	4045197362865
Item class	11X

Description

Version:

Optimised special knuckle profile for roughing.

Very **high rate of metal removal**. Can be used as a **universal end mill**.

Special cooling channel system, to achieve the best possible high performance machining.

Application:

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

Technical description

Feed f_z for slot milling in steel $< 900 \text{ N/mm}^2$	0.1 mm
Corner chamfer width at 45°	0.4 mm
Overhang length L_1 incl. recess	54 mm
Feed f_z for side milling in steel $< 900 \text{ N/mm}^2$	0.12 mm
Cutting edge $\varnothing D_c$	20 mm
Recess $\varnothing D_1$	19.5 mm
No. of teeth Z	5
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	45 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	yes
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	265 m/min	P
Steel < 750 N/mm ²	suitable	195 m/min	P
Steel < 900 N/mm ²	suitable	195 m/min	P
Steel < 1100 N/mm ²	suitable	160 m/min	P
Steel < 1400 N/mm ²	suitable	140 m/min	P
Steel < 55 HRC	suitable only under restricted conditions	35 m/min	H
INOX < 900 N/mm ²	suitable	70 m/min	M
INOX > 900 N/mm ²	suitable only under restricted conditions	50 m/min	M
Ti > 850 N/mm ²	suitable	45 m/min	S
GG(G)	suitable	145 m/min	K

Uni	suitable
wet maximum	suitable
Air	suitable