

Garant
Roughing end mill HSS-PM, TiAlN, Ø DC: 20 mm

Order data

Order number	192860 20
GTIN	4045197108579
Item class	11W

Description
Version:
Relief ground fine pitch knuckle form profile.

Centre cutting teeth for plunging.

Size 6M to 25M – **MID mills:** Dimensions to **manufacturer's standard**, which is **between** DIN 844 **stub** and DIN 844 **long**.

Through-coolant: no

Tolerance nominal Ø: ±0.12

No. of teeth Z: 5

Helix angle: 30 degrees

Direction of infeed: horizontal, oblique and vertical

Shank: DIN 1835 B to h6

No. of teeth Z: 5

Flute length L_c : 38 mm

Overhang length L_1 incl. recess: 53 mm

Recess Ø D_1 : 19.5 mm

Overall length L: 104 mm

Shank Ø D_s : 20 mm

Technical description

Recess Ø D_1	19.5 mm
Feed f_z for slot milling in steel < 900 N/mm ²	0.048 mm
Corner chamfer width at 45°	0.3 mm
Cutting edge Ø D_c	20 mm
Overhang length L_1 incl. recess	53 mm

No. of teeth Z	5
Shank $\varnothing D_s$	20 mm
Overall length L	104 mm
Flute length L_c	38 mm
Direction of infeed	horizontal, oblique and vertical
Shank	DIN 1835 B to h6
Tolerance nominal \varnothing	± 0.12
Helix angle	30 degrees
Corner chamfer angle	45 degrees
Coating	TiAlN
Tool material	HSS PM
Standard	DIN 844
Milling profile	HR
Through-coolant	no
Colour ring	green
Type of product	End mill