

Garant
Roughing end mill HSS-PM, TiAlN, Ø js12 DC: 20 mm

Order data

Order number	192445 20
GTIN	4045197106162
Item class	11W

Description
Version:
Relief ground knuckle form profile.

Centre cutting teeth for plunging.

Universal end mills for profile milling or for plunging.

For the most demanding metal removal rates.

Advantage:

Compared to multi-flute cutters, **better chip evacuation due to larger flutes.**

Through-coolant: no

Tolerance nominal Ø: js12

No. of teeth Z: 3

Helix angle: 25 degrees

Direction of infeed: horizontal, oblique and vertical

Shank: DIN 1835 B to h6

No. of teeth Z: 3

Flute length L_c : 38 mm

Overall length L: 104 mm

Shank Ø D_s : 20 mm

Corner chamfer width at 45°: 0.6 mm

Feed f_z for slot milling in steel < 750 N/mm²: 0.05 mm

Technical description

Feed f_z for slot milling in steel < 750 N/mm ²	0.05 mm
No. of teeth Z	3
Cutting edge Ø D_c	20 mm

Corner chamfer width at 45°	0.6 mm
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	js12
Helix angle	25 degrees
Corner chamfer angle	45 degrees
Coating	TiAlN
Tool material	HSS PM
Standard	DIN 844 B
Milling profile	NR
Through-coolant	no
Colour ring	without
Type of product	End mill