

Garant
Roughing end mill HSS-PM, TiAlN, Ø DC: 12 mm

Order data

Order number	192920 12
GTIN	4045197108821
Item class	11W

Description
Version:
Relief ground fine pitch knuckle form profile.

Centre cutting teeth for plunging.

For the most demanding metal removal rates.

Advantage:

Excellent results when milling dry.

Through-coolant: no

Tolerance nominal Ø: k12

No. of teeth Z: 4

Helix angle: 30 degrees

Direction of infeed: horizontal, oblique and vertical

Shank: DIN 1835 B to h6

No. of teeth Z: 4

Flute length L_c : 53 mm

Overall length L: 110 mm

Shank Ø D_s : 12 mm

Corner chamfer width at 45°: 0.5 mm

Feed f_z for slot milling in steel < 900 N/mm²: 0.025 mm

Technical description

Corner chamfer width at 45°	0.5 mm
Cutting edge Ø D_c	12 mm
Feed f_z for slot milling in steel < 900 N/mm ²	0.025 mm
No. of teeth Z	4

Shank $\varnothing D_s$	12 mm
Overall length L	110 mm
Flute length L_c	53 mm
Direction of infeed	horizontal, oblique and vertical
Shank	DIN 1835 B to h6
Tolerance nominal \varnothing	k12
Helix angle	30 degrees
Corner chamfer angle	45 degrees
Coating	TiAlN
Tool material	HSS PM
Standard	DIN 844
Milling profile	HR
Spacing of the cutters	unequal spacing
Through-coolant	no
Colour ring	without
Type of product	End mill