

Garant
Roughing end mill, TiAlN, Ø DC: 22mm

Order data

Order number	192710 22
GTIN	4045197107800
Item class	11W

Description
Version:
Relief ground knuckle form profile.

Up to size 20 end cutting teeth profile for plunging.

Through-coolant: no

Tolerance nominal Ø: k12

No. of teeth Z: 5

Helix angle: 27 °

Direction of infeed: horizontal and oblique

Shank: DIN 1835 B to h6

No. of teeth Z: 5

Flute length L_c : 75 mm

Overall length L: 141 mm

Shank Ø D_s : 20 mm

Corner chamfer width at 45°: 0.5 mm

Feed f_z for slot milling in steel < 750 N/mm²: 0.06 mm

Technical description

Feed f_z for slot milling in steel < 750 N/mm ²	0.06 mm
Cutting edge Ø D_c	22 mm
No. of teeth Z	5
Corner chamfer width at 45°	0.5 mm
Shank Ø D_s	20 mm
Overall length L	141 mm

Flute length L_c	75 mm
Direction of infeed	horizontal and oblique
Shank	DIN 1835 B to h6
Tolerance nominal \varnothing	k12
Helix angle	27°
Corner chamfer angle	45°
Coating	TiAlN
Tool material	HSS Co 8
Standard	DIN 844 B
Milling profile	NR
Spacing of the cutters	unequal spacing
Through-coolant	no
Colour ring	without
Type of product	End / face mill

User data

	Suitability	V_c	ISO code
Aluminium (short chipping)	suitable only under restricted conditions	120 m/min	N
Steel < 500 N/mm ²	suitable	78 m/min	P
Steel < 750 N/mm ²	suitable	55 m/min	P
Steel < 900 N/mm ²	suitable	55 m/min	P
INOX < 900 N/mm ²	suitable	17 m/min	M
INOX > 900 N/mm ²	suitable only under restricted conditions	14 m/min	M
GG(G)	suitable only under restricted conditions	46 m/min	K
CuZn	suitable only under restricted conditions	92 m/min	N
Uni	suitable		

wet maximum	suitable
dry	suitable only under restricted conditions