

Garant
Roughing end mill HSS-PM, TiAlN, Ø DC: 14mm

Order data

Order number	192925 14
GTIN	4067263118824
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.

Technical description

No. of teeth Z	4
Feed f_z for side milling in steel $< 900 \text{ N/mm}^2$	0.034 mm
Corner chamfer width at 45°	0.5 mm
Shank $\varnothing D_s$	12 mm
Overall length L	110 mm
Direction of infeed	horizontal, oblique and vertical
Corner chamfer angle	45 degrees
Cutting edge $\varnothing D_c$	14 mm
Flute length L_c	53 mm
Helix angle	30 degrees
Tolerance nominal \varnothing	k12
Shank	DIN 1835 B to h6

Coating	TiAlN
Tool material	HSS PM
Standard	DIN 844
Milling profile	HR
Cutting width a_e for milling operation	0.15×D for side milling
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	138 m/min	N
Alu > 10% Si	suitable only under restricted conditions	110 m/min	N
Steel < 500 N/mm ²	suitable	83 m/min	P
Steel < 750 N/mm ²	suitable	64 m/min	P
Steel < 900 N/mm ²	suitable	64 m/min	P
Steel < 1100 N/mm ²	suitable	37 m/min	P
Steel < 1400 N/mm ²	suitable	32 m/min	P
INOX < 900 N/mm ²	suitable	23 m/min	M
INOX > 900 N/mm ²	suitable only under restricted conditions	18 m/min	M
GG(G)	suitable only under restricted conditions	55 m/min	K
CuZn	suitable only under restricted conditions	110 m/min	N
Uni	suitable		
wet maximum	suitable		
dry	suitable		

