

Garant
Roughing end mill HSS-PM, TiAlN, Ø DC: 16mm

Order data

Order number	192925 16
GTIN	4067263118831
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

Feed f_z for side milling in steel < 900 N/mm ²	0.039 mm
Shank	DIN 1835 B to h6
Corner chamfer width at 45°	0.5 mm
Corner chamfer angle	45 degrees
No. of teeth Z	4
Flute length L_c	63 mm
Cutting edge $\varnothing D_c$	16 mm
Tolerance nominal \varnothing	k12
Overall length L	123 mm
Shank $\varnothing D_s$	16 mm
Direction of infeed	horizontal, oblique and vertical
Helix angle	30 degrees

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		

