

Garant
Roughing end mill HSS-PM, TiAlN, Ø DC: 16/4mm

Order data

Order number	192860 16/4
GTIN	4045197108548
Item class	11W

Description
Version:
Relief ground fine pitch knuckle form profile.

Centre cutting teeth for plunging.

Size 6M to 25M – **MID mills:** Dimensions to **manufacturer's standard**, which is **between** DIN 844 **stub** and DIN 844 **long**.

Technical description

Overhang length L_1 incl. recess	43 mm
Recess $\varnothing D_1$	15.5 mm
Feed f_z for slot milling in steel $< 900 \text{ N/mm}^2$	0.041 mm
Corner chamfer width at 45°	0.3 mm
No. of teeth Z	4
Cutting edge $\varnothing D_c$	16 mm
Shank $\varnothing D_s$	16 mm
Overall length L	92 mm
Flute length L_c	32 mm
Direction of infeed	horizontal, oblique and vertical
Shank	DIN 1835 B to h6
Tolerance nominal \varnothing	± 0.12
Helix angle	30 degrees

Corner chamfer angle	45 degrees
Coating	TiAlN
Tool material	HSS PM
Standard	DIN 844
Milling profile	HR
Through-coolant	no
Colour ring	green
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
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		