

Garant

GARANT Master Titan HSS-PM roughing end mill HPC, TiAlN, Ø k10 DC / R1: 20/2,0mm



Order data

Order number	192945 20/2,0
GTIN	4062406300418
Item class	11Z

Description

Version:

Innovative knurled profile and optimised flute geometry for a evacuating a high volume of chips at very high process reliability. Increased tool life due to precise alignment of the through-coolant with the cutting edges.

Advantage:

New type of tool material; problem solver under unstable machining conditions.

Technical description

Feed f_z for side milling in titanium $> 850 \text{ N/mm}^2$	0.03 mm
No. of teeth Z	4
Flute length L_c	75 mm
Direction of infeed	horizontal, oblique and vertical
Shank	DIN 6535 HB to h6
Overall length L	141 mm
Helix angle	40 degrees
Recess $\varnothing D_1$	19 mm
Cutting edge $\varnothing D_c$	20 mm
Feed f_z for side milling in INOX $> 900 \text{ N/mm}^2$	0.03 mm
Shank $\varnothing D_s$	20 mm

Overhang length L_1 incl. recess	89 mm
Tolerance nominal \varnothing	k10
Corner radius R_1	2 mm
Series	Master Titan
Coating	TiAlN
Tool material	HSS PM
Standard	DIN 844
Milling profile	HR
Helix angle characteristic	unequal spacing
Spacing of the cutters	unequal spacing
Cutting width a_e for milling operation	0.3×D for side milling
Through-coolant	no
Machining strategy	HPC
Colour ring	pink
Type of product	End / face mill

User data

	Suitability	V_c	ISO code
INOX < 900 N/mm ²	suitable	30 m/min	M
INOX > 900 N/mm ²	suitable	28 m/min	M
Ti > 850 N/mm ²	suitable	28 m/min	S
wet maximum	suitable		