Data sheet

GARANT Master Titan HSS-PM roughing end mill HPC, TiAlN, ∅ k10 DC / R1: 16/2,0mm

Order data

Order number	192940 16/2,0
GTIN	4062406300319
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

Tolerance nominal ∅	k10
Overhang length L_1 incl. recess	42 mm
Direction of infeed	horizontal, oblique and vertical
Overall length L	92 mm
Flute length L_c	32 mm
Shank	DIN 6535 HB to h6
Recess ∅ D_1	15 mm
Shank ∅ D_s	16 mm
No. of teeth Z	4
Feed f_z for side milling in titanium > 850 N/mm^2	0.035 mm

Cutting edge ∅ D_C	16 mm
Helix angle	40 degrees
Feed f_z for side milling in INOX > 900 N/mm²	0.03 mm
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	0.5×D for side milling
Through-coolant	yes
Machining strategy	HPC
Colour ring	pink
Type of product	End / face mill

User data

	Suitability	V_c	ISO code
INOX < 900 N/mm²	suitable	30 m/min	M
INOX > 900 N/mm²	suitable	28 m/min	M
Ti > 850 N/mm²	suitable	28 m/min	S
wet maximum	suitable		