Garant

Solid carbide torus cutter R1 0.05, DLC, ⌀ DC × L1: 2X16 mm

Order data

Order number	206043 2X16
GTIN	4062406089542
Item class	11X

Description

Version:
With **advanced DLC sp^2 coating.** For the **highest demands regarding performance and precision in aluminium materials. Extremely tight tolerances** ensure maximum accuracy.
Double-relief ground with 2 chamfers hollow ground.
Recess angle α = 16°.
Tolerances:
· **Corner radius: R_1 = ±0.0025 mm.**
· **Neck ⌀: D_1 = 0 / -0.01 mm.**
Description:
At greater tool overhang lengths, use a reduced value for ap!
Values for:
ts_fraes-kopieren fz for ap = 0.25×D
ts_fraes-besaeumen fz for an = 0.50×D
ap max ts_fraes-kopieren : ap korr × 0.25 × D [mm]
ap max ts_fraes-besaeumen : ap korr × 0.50× D [mm]
To calculate the feed rate vf please use the actual speed of the machine (the maximum possible speed)!
e.g: vf = 18000 [rpm] × fz [mm/Z] × z
Note:
At greater tool overhang lengths, use a reduced value for a_p!
Values for:
slots milled from solid: $a_p = 0.25 \times D \times a_{p\,korr}$
side milling: $a_p = 0.50 \times D \times a_{p\,korr}$
copying: $a_p = 0.25 \times D \times a_{p\,korr}$
To calculate the feed rate vf please use the actual speed of the machine (the maximum possible speed)!
e.g: vf = 18000 [rpm]× fz [mm/Z]× z
No. of teeth Z: 2

Helix angle: 30 degrees
Shank: DIN 6535 HA to h5
No. of teeth Z: 2
Flute length L_c: 2 mm
Corner radius R_1: 0.2 mm
Overhang length L_1 incl. recess: 16 mm
Recess ∅ D_1: 1.91 mm
Overall length L: 55 mm

Technical description

Overhang length L_1 incl. recess	16 mm
No. of teeth Z	2
Shank	DIN 6535 HA to h5
Feed f_z for copy milling in cast aluminium	0.035 mm
Feed f_z for side milling in cast aluminium	0.035 mm
Overall length L	55 mm
Flute length L_c	2 mm
Corner radius R_1	0.2 mm
Shank ∅ D_s	4 mm
Recess ∅ D_1	1.91 mm
Correction factor $a_{p\,korr}$	0.7
Helix angle	30 degrees
Cutting edge ∅ D_C	2 mm
Coating	DLC
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	W
Tolerance nominal ∅	0 / –0.005
Direction of infeed	horizontal, oblique and vertical
Cutting width a_e for milling operation	0.05×D for copy milling
Cutting width a_e for milling operation	0.5×D for side milling
Through-coolant	no

Colour ring	yellow
Type of product	End mill