

Garant

Solid carbide torus cutter, uncoated, Ø h6 DC / R1: 20/4,0 mm



Order data

Order number	206192 20/4,0
GTIN	4045197591890
Item class	11X

Description

Version:

Eccentric relief ground, additionally **polish ground** in the flutes for **outstanding chip evacuation** in long-chipping aluminium workpieces.

Tolerances:

· Corner radius

$R_1 = 0.5$ tolerance ± 0.02 .

$R_1 > 0.5 - 1.5$ tolerance ± 0.03 .

$R_1 > 1.5$ tolerance ± 0.05 .

Dimensions to manufacturer's standard.

No. of teeth Z: 3

Helix angle: 45 degrees

Shank: DIN 6535 HA to h6

Balance quality with shank: G 2.5 with HA

No. of teeth Z: 3

Flute length L_c : 32 mm

Corner radius R_1 : 4 mm

Overhang length L_1 incl. recess: 98 mm

Recess $\varnothing D_1$: 19 mm

Overall length L: 150 mm

Technical description

Overhang length L_1 incl. recess	98 mm
Feed f_z for side milling in short-chipping aluminium	0.12 mm
No. of teeth Z	3
Corner radius R_1	4 mm

Cutting edge $\varnothing D_c$	20 mm
Recess $\varnothing D_1$	19 mm
Feed f_z for copy milling in short-chipping aluminium	0.13 mm
Shank $\varnothing D_s$	20 mm
Flute length L_c	32 mm
Overall length L	150 mm
Balance quality with shank	G 2.5 with HA
Shank	DIN 6535 HA to h6
Helix angle	45 degrees
Coating	uncoated
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	W
Tolerance nominal \varnothing	h6
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	0.3×D for side milling
Through-coolant	no
Shank tolerance	h6
Colour ring	yellow
Type of product	End mill

Services

Shank recess Type FRST	209900 FRST
Shank clamping flats for shrink-fit chucks, with retainer function Shank \varnothing tool 20 mm	SZ2025 20
Shank grinding Type HB	129100 HB