

Garant

Solid carbide milling cutter HPC, ZOx, Ø f8 DC: 12 mm



Order data

Order number	202251 12
GTIN	4045197538604
Item class	11X

Description

Version:

Sturdy roughing end mill **without** knuckle profile.

With strong core, **special chip breaker recesses** and **large polished flutes**.

Application:

For roughing milling with high demands on the component surface.

Note:

NEW GENERATION AVAILABLE!

Recommended successor product is No. 202017.

Tolerance nominal Ø: f8

No. of teeth Z: 3

Helix angle: 45 degrees

Direction of infeed: horizontal, oblique and vertical

Shank: DIN 6535 HA to h6

Balance quality with shank: G 2.5 with HA

No. of teeth Z: 3

Flute length L_c : 19 mm

Overhang length L_1 incl. recess: 73 mm

Recess Ø D_1 : 11 mm

Overall length L: 120 mm

Shank Ø D_s : 12 mm

Technical description

Cutting edge Ø D_c	12 mm
No. of teeth Z	3
Shank form	HA

Overhang length L_1 incl. recess	73 mm
Feed f_z for side milling in short-chipping aluminium	0.09 mm
Corner chamfer width at 45°	0.2 mm
Recess $\varnothing D_1$	11 mm
Feed f_z for slot milling in short-chipping aluminium	0.07 mm
Shank $\varnothing D_s$	12 mm
Overall length L	120 mm
Flute length L_c	19 mm
Direction of infeed	horizontal, oblique and vertical
Shank	DIN 6535 HA to h6
Tolerance nominal \varnothing	f8
Balance quality with shank	G 2.5 with HA
Helix angle	45 degrees
Corner chamfer angle	45 degrees
Coating	ZOX
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	W
Helix angle characteristic	unequal spacing
Spacing of the cutters	unequal spacing
Cutting width a_e for milling operation	0.3×D for side milling
Cutting width a_e for milling operation	Full slot cutting depth 1×D
Through-coolant	no
Machining strategy	HPC
Colour ring	yellow
Type of product	End mill

Services

Shank recess Type FRST	209900 FRST
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Shank clamping flats for shrink-fit chucks, with retainer
function Shank Ø tool 12 mm

SZ2025 12

Shank grinding Type HB

129100 HB