

Garant
Solid carbide end mill HPC, ZOx, Ø f8 DC: 12mm

Order data

Order number	203170 12
GTIN	4045197271952
Item class	11X

Description
Version:

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

Application:

For milling on the most demanding component surfaces.

Suitable exclusively for profile milling.

Technical description

Recess $\varnothing D_1$	11 mm
No. of teeth Z	6
Overhang length L_1 incl. recess	37 mm
Feed f_z for side milling in short-chipping aluminium	0.05 mm
Cutting edge $\varnothing D_c$	12 mm
Shank $\varnothing D_s$	12 mm
Overall length L	84 mm
Flute length L_c	30 mm
Direction of infeed	horizontal and oblique
Shank	DIN 6535 HA to h6
Tolerance nominal \varnothing	f8
Balance quality with shank	G 2.5 with HA
Helix angle	48 degrees

Corner chamfer angle	90 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	$0.05 \times D$ for side milling
Through-coolant	no
Machining strategy	HPC
Colour ring	yellow
Type of product	End / face mill

User data

	Suitability	V_c	ISO code
Alu plastics	suitable	460 m/min	N
Aluminium (short chipping)	suitable	400 m/min	N
Alu > 10% Si	suitable	210 m/min	N
CuZn	suitable	180 m/min	N
wet maximum	suitable		
wet minimum	suitable only under restricted conditions		
Air	suitable only under restricted conditions		