

**Garant**
**Solid carbide milling cutter HPC, ZOx, Ø f8 DC: 10mm**

**Order data**

Order number	202251 10
GTIN	4045197538598
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.**

**Technical description**

Feed $f_z$ for side milling in short-chipping aluminium	0.09 mm
Feed $f_z$ for slot milling in short-chipping aluminium	0.07 mm
Shank form	HA
Recess $\varnothing D_1$	9.2 mm
Overhang length $L_1$ incl. recess	58 mm
Cutting edge $\varnothing D_c$	10 mm
No. of teeth $Z$	3
Corner chamfer width at $45^\circ$	0.2 mm
Shank $\varnothing D_s$	10 mm
Overall length $L$	100 mm
Flute length $L_c$	16 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 / face mill

## User data

	Suitability	$V_c$	ISO code
Aluminium	suitable only under restricted conditions	250 m/min	N
Aluminium (short chipping)	suitable	240 m/min	N
Alu > 10% Si	suitable	120 m/min	N
CuZn	suitable	120 m/min	N
wet maximum	suitable		
wet minimum	suitable only under restricted conditions		

dry	suitable only under restricted conditions
Air	suitable only under restricted conditions
<b>Services</b>	
Shank grinding Type HB	129100 HB