

**Garant**
**Solid carbide chamfer mill 60°, uncoated, Ø e8 DC: 20mm**

**Order data**

Order number	208065 20
GTIN	4045197859648
Item class	11X

**Description**
**Version:**

**Tolerance:** Point angle  $\pm 1^\circ$ .

**Application:**

- **Countersinking**
- **Chamfering**

**Note:**

For **HB** shanks use order **No. 208068**.

HB shanks are available at the same price as HA.

**Technical description**

Shank $\varnothing D_s$	20 mm
Overall length L	104 mm
Shank	DIN 6535 HA with h6
Feed $f_z$ for side milling in steel < 900 N/mm <sup>2</sup>	0.1 mm
Cutting edge $\varnothing D_c$	20 mm
Flute length $L_c$	38 mm
No. of teeth Z	2
Corner chamfer angle	60 degrees
Chamfer mill	30 degrees
Coating	uncoated
Tool material	Solid carbide

Standard	Manufacturer's standard
Type	N
Tolerance nominal $\varnothing$	e8
Helix angle	30 degrees
Cutting width $a_e$ for milling operation	0.5×D for side milling
Countersink tip angle	60 degrees
Through-coolant	no
Shank tolerance	h6
Colour ring	without
Type of product	Indexable end mill

## User data

	Suitability	$V_c$	ISO code
Alu plastics	suitable	180 m/min	N
Aluminium (short chipping)	suitable	140 m/min	N
Alu > 10% Si	suitable	105 m/min	N
Steel < 500 N/mm <sup>2</sup>	suitable	70 m/min	P
Steel < 750 N/mm <sup>2</sup>	suitable	60 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	55 m/min	P
Steel < 1100 N/mm <sup>2</sup>	suitable	35 m/min	P
INOX < 900 N/mm <sup>2</sup>	suitable	40 m/min	M
GG(G)	suitable	55 m/min	K
Uni	suitable		
wet maximum	suitable		
wet minimum	suitable only under restricted conditions		
Air	Suitable only under restricted conditions		

## Services

Shank grinding Type HB

129100 HB