

Garant
Solid carbide chamfering cutter 120°, uncoated, Ø e8 DC: 20mm

Order data

Order number	208080 20
GTIN	4045197300850
Item class	11X

Description
Version:

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

Application:

- Slot milling
- Countersinking
- Milling
- Can also be used as a NC spotting drill.

Note:

For **HB** shanks use order **No. 208081**.

HB shanks are available at the same price as HA.

Technical description

Cutting edge $\varnothing D_c$	20 mm
No. of teeth Z	2
Feed f_z for side milling in steel $< 900 \text{ N/mm}^2$	0.1 mm
Shank $\varnothing D_s$	20 mm
Flute length L_c	38 mm
Overall length L	104 mm
Shank	DIN 6535 HA to h6
Corner chamfer angle	30 degrees
Chamfer mill	60 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	120 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 ²	suitable	70 m/min	P
Steel < 750 N/mm ²	suitable	60 m/min	P
Steel < 900 N/mm ²	suitable	55 m/min	P
Steel < 1100 N/mm ²	suitable	35 m/min	P
INOX < 900 N/mm ²	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