

**Garant**
**Solid carbide milling cutter, uncoated, Ø e8 DC: 20mm**

**Order data**

Order number	202820 20
GTIN	4045197662828
Item class	11X

**Description**
**Version:**

Double relief ground side clearance angle.

**Technical description**

Feed $f_z$ for side milling in steel < 900 N/mm <sup>2</sup>	0.12 mm
Feed $f_z$ for slot milling in steel < 900 N/mm <sup>2</sup>	0.1 mm
Cutting edge Ø $D_c$	20 mm
Shank form	HB
Corner chamfer width at 45°	0.2 mm
No. of teeth Z	4
Shank Ø $D_s$	20 mm
Overall length L	150 mm
Flute length $L_c$	80 mm
Direction of infeed	horizontal, oblique and vertical
Shank	DIN 6535 HB to h6
Tolerance nominal Ø	e8
Helix angle	35 degrees
Corner chamfer angle	45 degrees
Coating	uncoated

Tool material	Solid carbide
Standard	Manufacturer's standard
Type	N
Cutting width $a_e$ for milling operation	$0.1 \times D$ for side milling
Through-coolant	no
Colour ring	without
Type of product	End / face mill

### User data

	Suitability	$V_c$	ISO code
Aluminium (short chipping)	suitable only under restricted conditions	110 m/min	N
Alu > 10% Si	suitable only under restricted conditions	80 m/min	N
Steel < 500 N/mm <sup>2</sup>	suitable	50 m/min	P
Steel < 750 N/mm <sup>2</sup>	suitable	45 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	40 m/min	P
Steel < 1100 N/mm <sup>2</sup>	suitable	35 m/min	P
Steel < 1400 N/mm <sup>2</sup>	suitable	25 m/min	P
INOX < 900 N/mm <sup>2</sup>	suitable	35 m/min	M
GG(G)	suitable only under restricted conditions	55 m/min	K
Uni	suitable only under restricted conditions		
wet maximum	suitable		
wet minimum	suitable only under restricted conditions		