

**Garant**
**Solid carbide milling cutter, uncoated, Ø e8 DC: 12 mm**

**Order data**

Order number	202820 12
GTIN	4045197662781
Item class	11X

**Description**
**Version:**

Double relief ground side clearance angle.  
 Through-coolant: no  
 Tolerance nominal Ø: e8  
 No. of teeth Z: 4  
 Helix angle: 35 degrees  
 Direction of infeed: horizontal, oblique and vertical  
 Shank: DIN 6535 HB to h6  
 No. of teeth Z: 4  
 Flute length  $L_c$ : 60 mm  
 Overall length L: 150 mm  
 Shank Ø  $D_s$ : 12 mm  
 Shank form: HB  
 Corner chamfer width at 45°: 0.13 mm

**Technical description**

Cutting edge Ø $D_c$	12 mm
Feed $f_z$ for slot milling in steel < 900 N/mm <sup>2</sup>	0.06 mm
Shank form	HB
Feed $f_z$ for side milling in steel < 900 N/mm <sup>2</sup>	0.08 mm
Corner chamfer width at 45°	0.13 mm
No. of teeth Z	4
Shank Ø $D_s$	12 mm

Overall length L	150 mm
Flute length L <sub>c</sub>	60 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 <sub>e</sub> for milling operation	0.1×D for side milling
Through-coolant	no
Colour ring	without
Type of product	End mill

## Services

Shank recess Type FRST	209900 FRST
Shank clamping flats for shrink-fit chucks, with retainer function Shank Ø tool 12 mm	SZ2025 12