

**Garant**
**Milling head for front and back chamfering, 90°, HB730, Ø D ± 0.01: 12mm**

**Order data**

Order number	210380 12
GTIN	4045197523501
Item class	21M

**Description**
**Note:**

$$a_{e\max} = a_{p\max}$$

**Technical description**

Head length l	13 mm
Cutter Ø D	12 mm
Suitable chuck key No. 219987; No. 219986	8×3
Flute length L <sub>2</sub>	2 mm
maximum cutting depth a <sub>p,max</sub> in steel < 900 N/mm <sup>2</sup>	0.9 mm
Corner chamfer angle	45 degrees
Arbor size	10 mm
Feed f <sub>z</sub> in steel < 900 N/mm <sup>2</sup>	0.08 mm
maximum cutting depth a <sub>p,max</sub> when slot milling from solid	1.4
Overall length L	26.9 mm
Number of cutting edges Z	6
Series	TopCut
Grade	HB730

Tool material	Solid carbide
Countersink tip angle	90
Standard	Manufacturer's standard
Type	N
Direction of infeed	horizontal
Through-coolant	no
Shank type	GARANT TopCut
Type of product	Threaded copy milling cutter

### User data

	Suitability	V <sub>c</sub>	ISO code
Steel < 500 N/mm <sup>2</sup>	suitable	210 m/min	P
Steel < 750 N/mm <sup>2</sup>	suitable	170 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	150 m/min	P
Steel < 1100 N/mm <sup>2</sup>	suitable	130 m/min	P
Steel < 1400 N/mm <sup>2</sup>	suitable only under restricted conditions	110 m/min	P
Steel < 55 HRC	suitable only under restricted conditions	50 m/min	H
Steel < 60 HRC	suitable only under restricted conditions	40 m/min	H
INOX < 900 N/mm <sup>2</sup>	suitable	80 m/min	M
INOX > 900 N/mm <sup>2</sup>	suitable only under restricted conditions	50 m/min	M
Ti > 850 N/mm <sup>2</sup>	suitable only under restricted conditions	80 m/min	S
GG(G)	suitable	160 m/min	K
Oil	suitable only under restricted conditions		
wet maximum	suitable		

wet minimum	suitable only under restricted conditions
dry	suitable only under restricted conditions
Air	suitable

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## Accessories

Assembly wrench Type 8X3	219987 8X3
Plug-in adapter for torque wrench Type 8X3	219986 8X3