

**Garant**
**Copy milling head, hard machining, HB7730, Ø D h10: 20mm**

**Order data**

Order number	210370 20
GTIN	4045197523495
Item class	21M

**Technical description**

Head length l	25 mm
Flute length L <sub>2</sub>	15 mm
Cutter Ø D	20 mm
maximum cutting depth a <sub>p,max</sub> in steel < 60 HRC	0.6 mm
Arbor size	20 mm
Free length	25 mm
Feed f <sub>z</sub> for copy milling in steel < 60 HRC	0.08 mm
Number of cutting edges Z	4
Series	TopCut
Grade	HB7730
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	H
Helix angle	15 degrees
Direction of infeed	horizontal and oblique

Cutting width $a_e$ for milling operation	0.05×D for copy milling
Through-coolant	no
suitable arbor	GARANT TopCut
Type of product	Cutter insert for milling

## User data

	Suitability	$V_c$	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**

Plug-in adapter for torque wrench Type 16X5	219986 16X5
Assembly wrench Type 16X5	219987 16X5