

**Garant**
**GARANT Master Steel SlotMachine solid carbide roughing milling head,  
HB730, Ø D d11: 12mm**

**Order data**

Order number	210290 12
GTIN	4045197891440
Item class	21M

**Description**
**Note:**

Standard application values for  $a_{p\max} \leq 0.75 \times D$ .

**Technical description**

Corner chamfer width at 45°	0.6 mm
Flute length $L_2$	15 mm
Feed $f_z$ for slot milling in steel < 900 N/mm <sup>2</sup>	0.065 mm
Feed $f_z$ for side milling in steel < 900 N/mm <sup>2</sup>	0.09 mm
Head length $l$	22 mm
Cutter Ø D	12 mm
Arbor size	12 mm
Corner chamfer angle	45 degrees
Overall length $L$	30.1 mm
Number of cutting edges $Z$	5
Series	TopCut
Series	Master Steel
Grade	HB730

Tool material	Solid carbide
Standard	Manufacturer's standard
Type	N
Milling profile	NR
Helix angle	42 degrees
Direction of infeed	horizontal, oblique and vertical
Cutting width $a_e$ for milling operation	0.3×D for side milling mm
Cutting width $a_e$ for milling operation	Full slot cutting depth 1×D mm
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