

Garant
End milling head, radius = 1.0 mm, HB730, Ø D h10: 20mm

Order data

Order number	210230 20
GTIN	4045197522993
Item class	21M

Description
Note:

 Standard application values for $a_{p,max} \leq 0.5 \times D$.

Technical description

Flute length L_2	15 mm
Head length l	25 mm
Cutter $\varnothing D$	20 mm
Feed f_z for side milling in steel $< 900 \text{ N/mm}^2$	0.09 mm
Feed f_z for slot milling in steel $< 900 \text{ N/mm}^2$	0.07 mm
Arbor size	20 mm
Corner rounding r_v	1
Number of cutting edges Z	4
Series	TopCut
Grade	HB730
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	N

Helix angle	40 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 ²	suitable	210 m/min	P
Steel < 750 N/mm ²	suitable	170 m/min	P
Steel < 900 N/mm ²	suitable	150 m/min	P
Steel < 1100 N/mm ²	suitable	130 m/min	P
Steel < 1400 N/mm ²	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 ²	suitable	80 m/min	M
INOX > 900 N/mm ²	suitable only under restricted conditions	50 m/min	M
Ti > 850 N/mm ²	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

Accessories

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