

Garant
Face torus milling head, with internal coolant supply, HB730, Ø D h10: 20mm


Order data

Order number	210310 20
GTIN	4045197523280
Item class	21M

Description

Note:
Comply strictly with $a_{p,max}$! Recommended application values (v_c and f_z) apply also to $a_{p,max}$.

Technical description

Milling head Ø D	20 mm
Head length l	25 mm
maximum cutting depth $a_{p,max}$ in steel < 900 N/mm ²	1 mm
Programming radius R_p	3.675 mm
Flute length L_2	15 mm
Corner radius	3 mm
Feed f_z in steel < 900 N/mm ²	1.1 mm
Arbor size	20 mm
Number of cutting edges Z	5
Grade	HB730
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	N

Helix angle	45 degrees
Direction of infeed	horizontal and oblique
Cutting width a_e for milling operation	$0.05 \times D$ for side milling
Machining strategy	HPC
Through-coolant	yes
Shank type	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

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