



400H SERIES II

B&K CNC Horizontal Hobbing Machine

HORIZONTAL HOBBING

STANDARD MACHINE SPECIFICATIONS

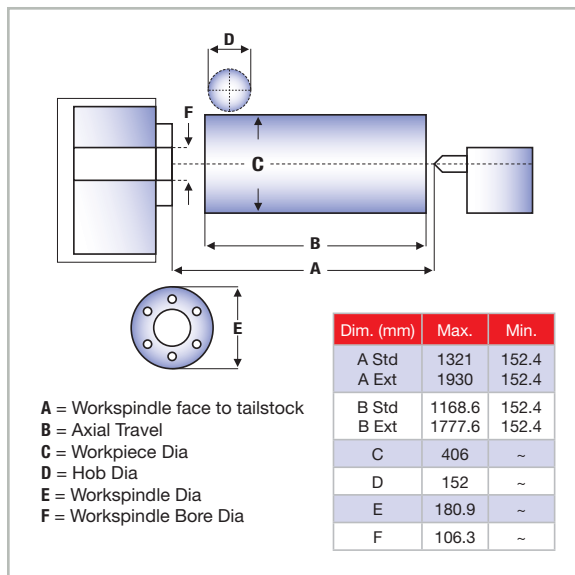
The Bourn & Koch 400H is a seven (7) axis CNC Horizontal Hobbing Machine/Milling Machine for hobbing spur and helical gears, splines, and threads on cylindrical blanks or shafts. It is practical to hob and/or mill more than one component sequentially if multiple components exist on a shaft.



Technical Data - Capacities & Limits

Nominal Workpiece Diameter	406.4 mm
Maximum Module	6.4 mod
Maximum Axial Cutting Length	1321 mm
Maximum Hob Diameter	152 mm
Maximum Hob Length	177 mm
Maximum Hob Swivel	+/- 45°
Maximum Hob Shift	152 mm
Hob Speed Range (RPM)	20-375
Workspindle Maximum Speed (RPM)	64
Hob Drive Power	7.5 kw
Width (Approximate)	3170 mm
Height (Approximate)	2300 mm
Length (Approximate)	2200 mm
Weight (Approximate Net)	8106 kg

Technical data is subject to change without notice and may vary according to the workpiece geometry, the loading system and the workholding equipment supplied.





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Standard Equipment	
Description	
Base machine with NUM 1060H CNC control	
Wired for 460 volts, 3 phase, 60 Hz	
Steel polymer concrete composite structure	
Total enclosure	
Anti friction hardened and ground ways	
Steel way covers for Z axis and tail center	
CNC operated tail center with variable load control	
CNC programmable hob swivel setting	
Manual grease lubrications to all bearing surfaces	
Electrical panel to AMT and ANSI-NFPA 79 Codes	
Wet or dry cutting, with coolant tank/pump assembly	
B axis - hob servo motor	
C axis - work spindle servo motor	
X axis - radial feed servo motor	
Y axis - tangential/hob shift servo motor	
Z axis - axial feed servo motor	
A axis - hob swivel	
W axis - tailstock position motor	
Automatic single and double cut cycles	
Speed and feed change between cuts	
Crown hobbing cycle	
Taper hobbing cycle	
Radial and tangential feed wormgear cycles	
Operator friendly data entry HMI screens	
Machine painted one standard color	
Selectable number of cuts	
Work light	
Programmable, multi-surface cutting capability	
Standard Equipment Total (\$):	

Optional Equipment		Price (\$)
Description		
GE Fanuc 16i CNC control		
Color Screen, 14", for NUM 1060 Control		
Electronic door open and close		
Extended bed (24" extension to allow 76" shaft length)		
Optional 50-500 or 100-1000 RPM hob speed range		
Hob shift extended to 8", HD hobhead, 15kW drive, 50-900 rpm		
Quick change hob arbor clamp assembly for hob spindle		
Emergency withdrawal of X axis due to power loss		
Foot valve for tail center		
Automatic stock division hardware & software		
Set of leveling wedges		
Additional work area light		
Magnetic chip separator (RH discharge std) (LH on request)		
Drag type chip separator for wet/dry non-magnetic materials		
Mist collector assembly		
Pneumatic work clamping cylinder		
Collet chuck assembly		
Special workholding system fixture systems		
Adjustable roller type steadyrests		
Charge for non standard work spindle speed		
Rotary deburring attachment, for gear deburring at hob exit of cut		
Hob arbors in inch or metric design		
Special cycle executions		
Increased memory for 200 parts, in lieu of standard 40		
Interchangeable hydraulic hob arbor clamping nut		
Conformance to European Union CE specifications		
Automation designs		
Interface software for third party robotic automation		
Capability runoff for 25 pieces with inspection		
Optional Equipment Total (\$):		

Total Cost:	
Standard Equipment Total (\$):	
Optional Equipment Total (\$):	
TOTAL (\$):	

Submit a
QUICK QUOTE Request



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