



# 400H SERIES II

## B&K CNC Horizontal Hobbing Machine

HORIZONTAL HOBBING

### STANDARD MACHINE SPECIFICATIONS

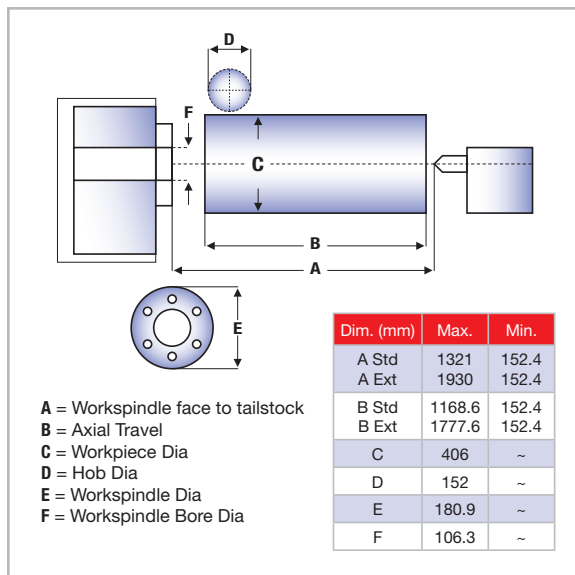
The Bourn & Koch 400H is a 7 axis CNC Horizontal Hobbing Machine/Milling Machine for hobbing spur and helical gears, splines, and threads on cylindrical blanks or shafts. It is practical hob and/or mill more than one component sequentially if multiple components exist on a shaft.



### 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	
Description	Price (\$)
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 (\$):	
<b>TOTAL (\$):</b>	

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