



# 100H SERIES II

## B&K CNC Horizontal Hobbing Machine

HORIZONTAL HOBBING

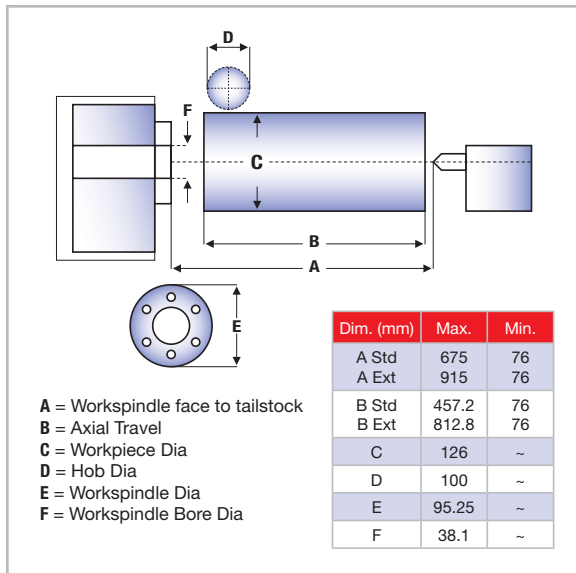
### STANDARD MACHINE SPECIFICATIONS

The Bourn & Koch 100H is a (six) 6 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	126 mm
Maximum Module	2.5 mod
Maximum Axial Cutting Length	457.2 mm
Maximum Hob Diameter	100 mm
Maximum Hob Length	152 mm
Maximum Hob Swivel	+/- 45°
Maximum Hob Shift	152 mm
Hob Speed Range (RPM)	100-2000
Workspindle Maximum Speed (RPM)	750
Hob Drive Power	7.5 kw
Width (Approximate)	1626 mm
Height (Approximate)	1829 mm
Length (Approximate)	1982 mm
Weight (Approximate Net)	3230 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	
Total enclosure	
Anti friction hardened and ground ways	
Steel way covers for Z axis and tail center	
Pneumatic live center, position adjustable	
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	
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	
Manufactured in USA	
<b>Standard Equipment Total (\$):</b>	

Optional Equipment	
Description	Price (\$)
GE Fanuc 16i CNC control	
Color Screen	
Electronic door open and close	
Extended bed (14" extension to allow 32" shaft length)	
Optional 200-3000 RPM hob speed range	
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	
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	
Automation designs	
90° special milling cutter slide	
Rotary deburring attachment	
Hob arbors in inch or metric design	
Special cycle executions	
Special chamfering hobbing design (100C)	
<b>Optional Equipment Total (\$):</b>	

Total Cost:	
Standard Equipment Total (\$):	
Optional Equipment Total (\$):	
<b>TOTAL (\$):</b>	

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