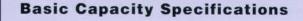
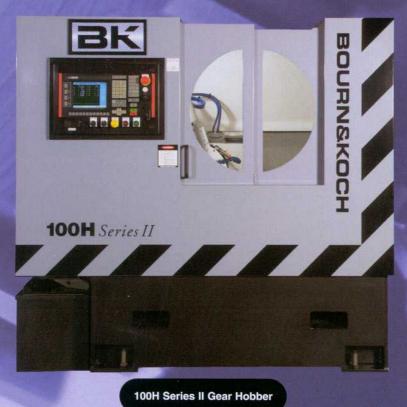


# 100H Series II GEAR HOBBING MACHINE



DESCRIPTION	100H
Maximum Coarseness	10 NDP, 2.54 Mod
Maximum Work Diameter	5 in. (127 mm)
Maximum Hob Length	6 in. (152.4 mm)
Maximum Hob Diameter	4 in. (101.6 mm)
Maximum Hobshift Travel	6.0 in. (150 mm)
Hob Swivel Range	+/- 45 deg. (Left or Right
DISTANCE: Work Spindle Face to Tail Center, Maximum	26.5 in. (675 mm) 36 in. (915 mm)*Long
DISTANCE: Work Spindle Face to C.L. of Hob Spindle. (Dependent upon Center Distance & Helix angle)	Min: 3 in. (76 mm) Max: 18 in. (457.2) Max: 32 in. (812.8) Long
DISTANCE: C.L. of Work Spindle to CL. of Hob Spindle	Min: 0 in. (0 mm) Max: 4.5 in. (114 mm)
DISTANCE: C.L. of Work Spindle to Floor	Min. 39 in. (955.5 mm) w/o leveling wedges
TYPICAL QUALITY:	AGMA 10 Double Cut AGMA 9 Single Cut
Overall Dimensions	L x W x H 78 x 72 x 64 in. (2.0 x 1.8 x 1.6 m) 98 x 72 x 64 in. Long* (2.5 x 1.8 x 1.6 m*)
Approximate Weight	7,100 lb (3,195 kg) 8,300 lb (3,735 kg) Long
Six Axis CNC Control	Standard
NUM 1050 CNC System with Absolute Encoders	Standard
GE Fanuc CNC System with Absolute Encoders	Optional
onversational Programming	Standard





## 100H Series II CNC HOBBER

### The New Series II Horizontal Gear Hobbers Have Been Redesigned To Include Many New Benefits.



Improved hob spindle/ swivel/cartridge assembly and internal guarding



Fully enclosed with small compact footprint

#### > Overall Improvements

- · Standard six (6) axis
- · Standard full enclosure
- · No hydraulics required on standard
- · Improved chip removal
- · Modern electronics
- · Completely redesigned hob swivel and slide with additional capacity

#### > Base

- · Constructed from steel structure with vibration and thermal suppression
- · Available in a standard or long version
- · Improved chip/coolant removal with flexible configurations for dry hobbing

#### > Work Spindle, C-axis

- · Standard work spindle speed range of 750 rpm max., other ratios available
- · Work spindle housing constructed of steel - polymer concrete composite
- . 39" height from the floor

#### > Hob Rotation, B-axis

- · Proven technology
- · Standard spindle speed range is 100 - 2,000 rpm
- · Cartridge design
- · Optional interchangeable spindles available.

#### > Axial Feed, Z-axis

- · Precision linear roller ways
- · Precision ball screw
- . Peak velocity of 500 ipm
- · Stainless steel roller covers for high-speed dry hobbing

#### > Radial In-Feed, X-axis

- · Precision linear roller ways
- · Precision ball screw
- . Peak velocity of 250 ipm

#### > Hob Shift, Y-axis

- · Completely redesigned to improve performance, capacity and clean appearance
- · Incorporates super alloy for large bearing surface
- · Precision ball screw
- · Peak velocity of 80 ipm

#### > Hob Swivel, A-axis

- · Completely redesigned on the Series II
- · Increased stiffness and improved packaging
- · Standard CNC controlled axis
- · Peak velocity 10 deg/sec

#### > Tailstock

- · Manual positioning
- · 3" stroke up to 500 lbs. clamping force

#### > CNC Control & Electronics

- NUM 1050 CNC controller
- . NUM AC digital amplifiers and motors with absolute encoders
- · Conversational software with graphics
- · Switchable handwheel
- · RS-232 interface
- · IEC style components
- · Nema 12 rated electrical enclosure

#### > Machine Enclosure

- · Completely enclosed work zone
- · Operator doors with overhead access
- · Interlocks on operator doors
- · Easy access side and rear panels
- · Stainless steel way covers
- · Containment of chips/coolant to work zone
- · One fluorescent work light

#### > Utilities

- · Electrical-480/240v, 60 cycle, 3 phase
- · Pneumatics-100 psi
- · Lube-Manual Trabon system
- · Coolant-Oil or water base, dry

#### > Optional Equipment

- · GE Fanuc CNC system
- · Color CRT
- · Emergency withdraw at power loss
- Extended base
- · Work spindle speed ranges
- Hob spindle speed ranges
- · Automatic stock dividing system
- · Quick change hob arbor clamp system
- · Work clamp assembly
- · Automated part loading and handling
- · Part steady rests
- · Deburring attachment
- · Interchangeable hob arbor assemblies
- · Magnetic chip conveyor
- · Paddle chip conveyor
- · Special and live tail centers
- Additional enclosure lighting
- · Electronically operated operator doors
- · Smoke and mist collector
- · Machine leveling wedges
- · Replacement parts kit
- · Customer part runoff
- · Installation and training
- · Export packaging

Specifications subject to change without notice

Advancing the Technology of Metal Removal



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