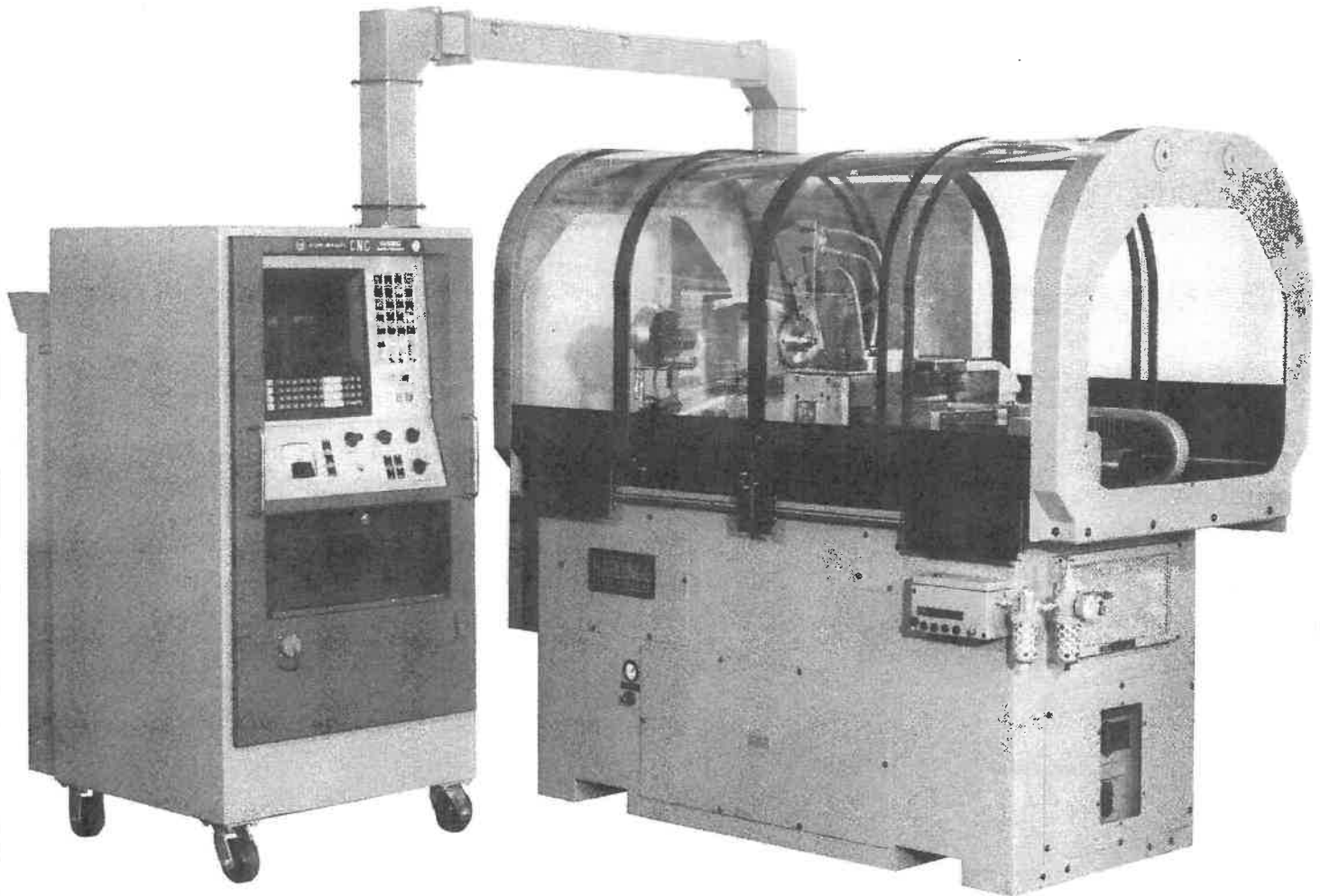


HARDINGE
SUPER-PRECISION®

Computerized N/C CHNC™ BAR AND CHUCKING MACHINE



Specifications:

6" Step Chuck Capacity
1 $\frac{1}{16}$ " Collet Capacity
Spindle Speed to 3000 RPM
Cross Slide Travel 4.5"
Carriage Travel 12"
Machine is Completely Enclosed
Threading from the Turret

Allen-Bradley Control

The Computerized Numerical Control unit from Allen-Bradley was designed exclusively for Hardinge.

The 7370 machine control unit offers the most complete, comprehensive, practical and easy-to-use CNC features available.

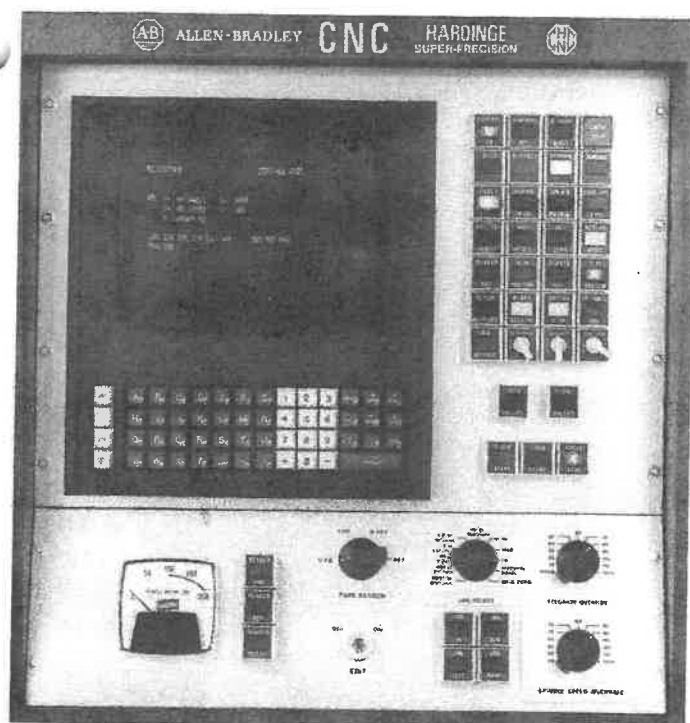
The CHNC Computerized Numerical Control Bar and Chucking Machine provides programmable resolution of .000010" ($\frac{1}{4}$ micron).

The totally enclosed CHNC Chucker permits super-close production tolerances and low micro finishes without grinding. The transparent guard door is electrically interlocked with "Auto Cycle."

The vertical cutoff slide, the part pickup chute and the Hardinge Pneumatic Vari-Grip® Collet Closer are standard equipment.

Programming features include: in position programming with linear and circular interpolation, decimal point programming, tool tip radius compensation, turret face programming with tool data file, stored pattern and pattern repeat, scaling and much more.

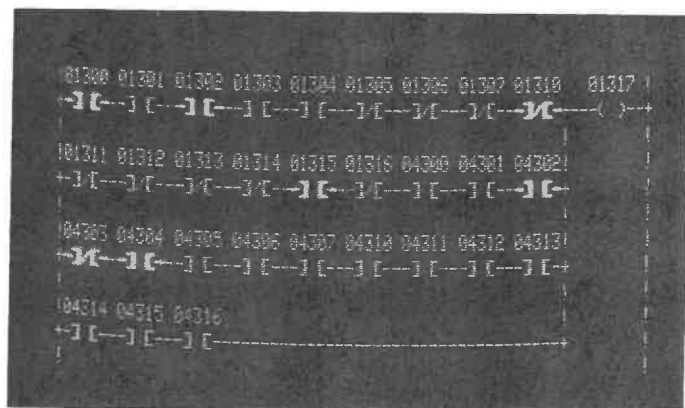
Request Bulletin C-57 for complete details.



Full Edit and Input

Part program can be loaded by tape, keyboard, or remotely by computer through RS-232-C interface.

Edited tapes can be provided by connecting a communications terminal or a tape punch to the interface plug.

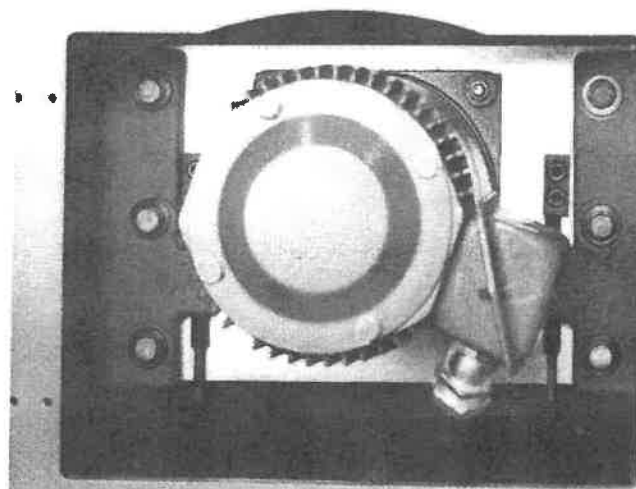


CRT Display

Complete Alpha-Numerics for manual entry.

Programmable interface allows rapid troubleshooting of machine interface logic in familiar ladder diagram form.

Operator messages include low air pressure, coolant high/low, illegal tape format, axis exceeded, etc.



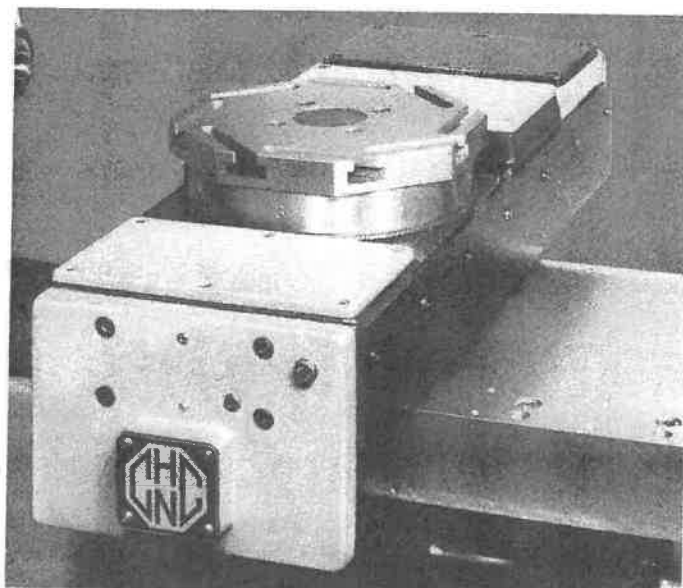
Cover Removed for Clarity

Spindle Drive Unit

The Spindle Drive Unit provides programmable spindle speeds from 30 to 3000 RPM.

The high torque, servo type, pulse width modulated drive permits direct constant surface speed/RPM programming.

The machine is equipped with an "Energized to Release" spindle brake.



Guard Doors Open for Clarity

Eight-Station Turret

The large eight-station turret is raised for indexing and locked "down" on matching tapered keys for maximum accuracy and rigidity. Turret stations can be selected at random.

Additional interchangeable turret top plates are available.

Precision threading is accomplished from the turret. Threads can be cut to 8" in diameter and 5" in length.