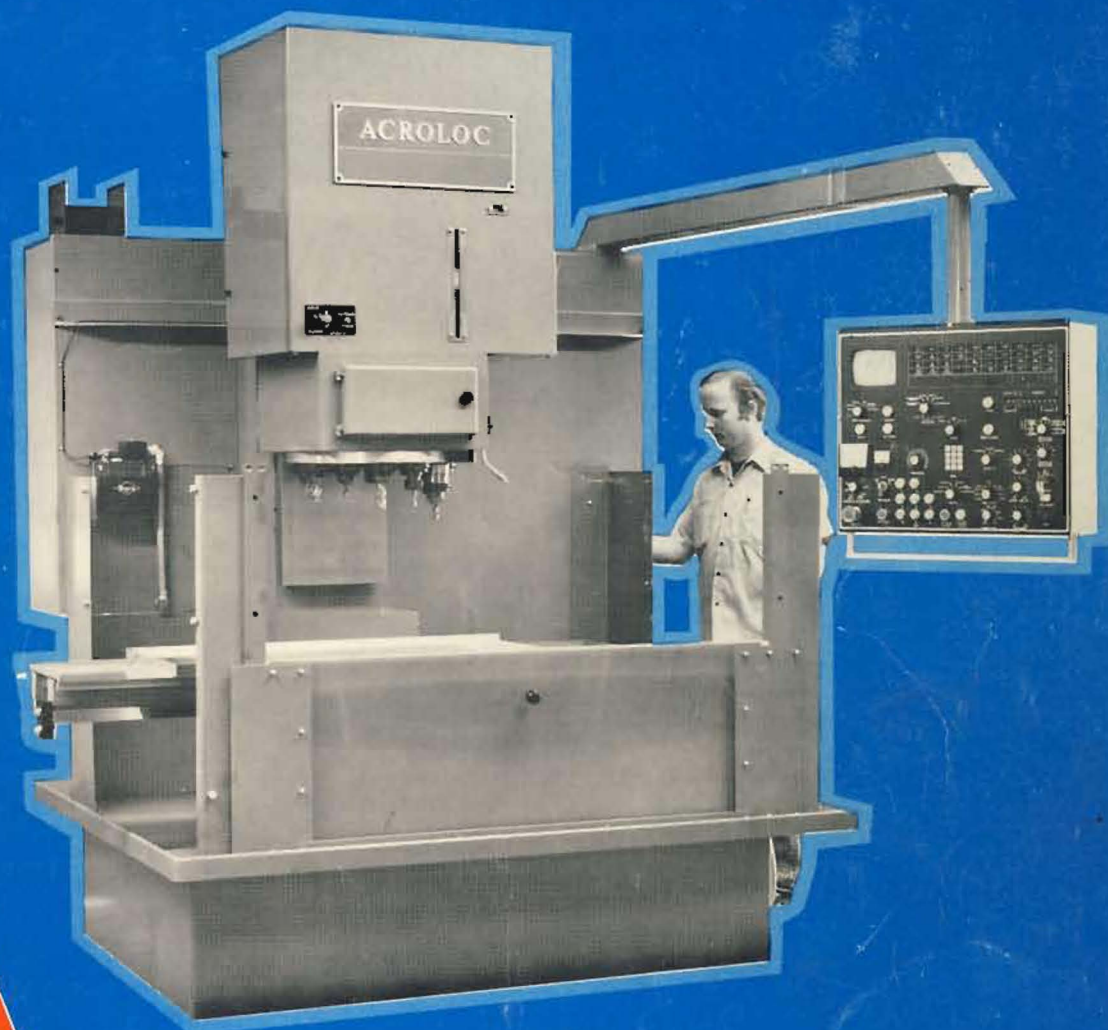


THE ALL-AMERICAN
ACROLOC



**HIGH SPEED
CNC
MACHINING CENTER**

Your



to a Profitable Future

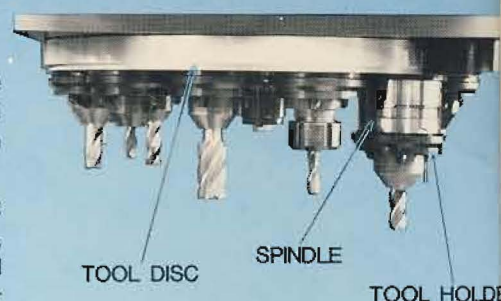
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Rapid Tool Change Means Rapid

1. TOOL CHANGE

Fast, simple and reliable tool change increases production and reduces downtime. The tool is placed under the spindle by programmed rotation of the tool disc. Downward motion of the spindle engages and locks the tool holder in place. Upward motion returns the tool holder to the tool disc.

Up to 12 tools may be used. Tool chip-to-chip change time is 2 seconds. The ACROLOC Tool Holder is designed specifically for an automatic tool changer. It offers simplicity, rigidity, accuracy, reliability and high speed change. Each tool holder is a self-contained mechanical locking mechanism. It is not subject to hydraulic, pneumatic, timing or adjustment problems.



2. SPINDLE SPEED CONTROL

The spindle is powered by a 6 horsepower (@1750 rpm) dc motor. The speed of each tool may be infinitely adjusted from 0 to 4000 rpm. The tachometer indicates the actual spindle speed. The spindle speeds may be programmed on tape in direct rpm. The speeds may be changed without changing the tape by using 64 stored speed overrides.

3. SPINDLE DRIVE AND BRAKE

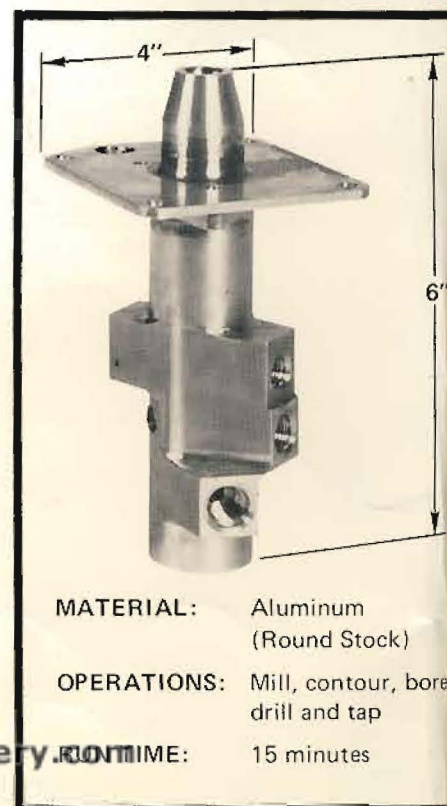
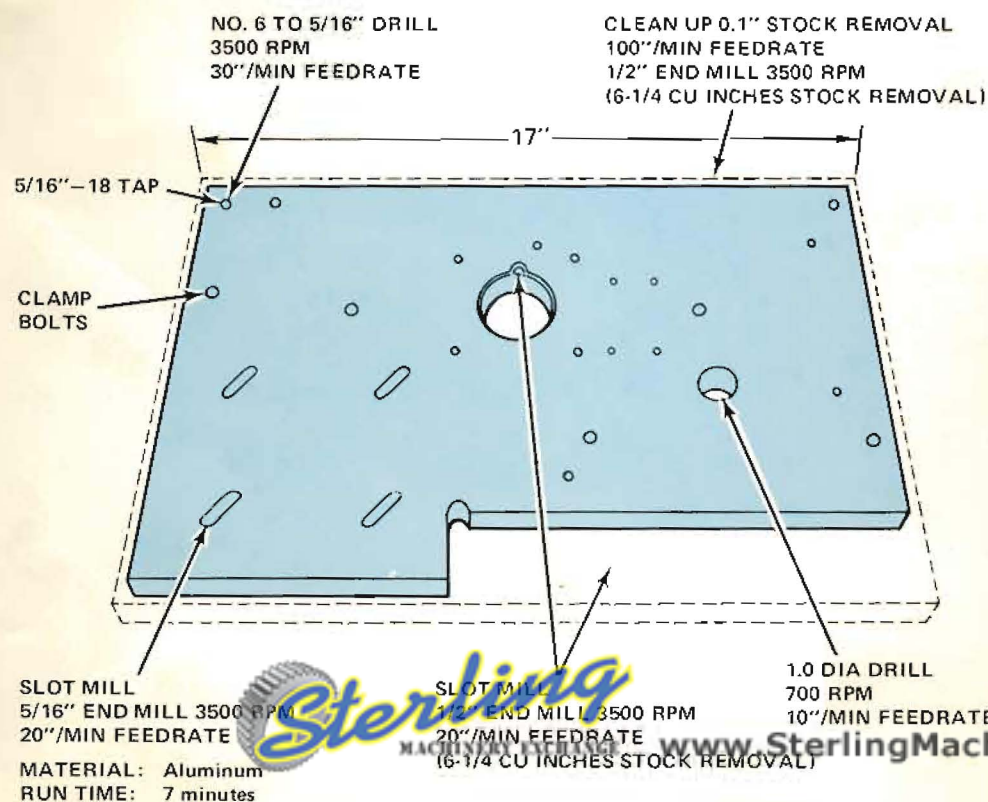
A two-speed pulley increases torque at low speed. Dynamic braking stops the spindle before tool change. The spindle turns on automatically.

4. 3RD AXIS SPINDLE CONTROL

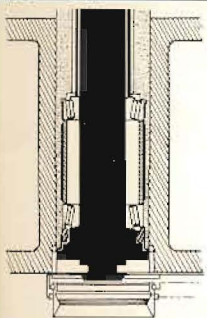
The 3rd axis spindle control provides the ultimate in flexibility. It permits limitless multi-step cutting. It enables the user to achieve the full benefit from numerical control by transferring the set-up time from the expensive machine tool to the inexpensive desk. It preserves the set-up for succeeding runs. Tapping is achieved by using a tension type tool holder and programming the appropriate speed and feed.

Drill oscillation to break chips or remove chips from deep holes can be programmed to provide the most appropriate sequence.

Broad Range Capabilities



Production COMPARE THESE LABOR SAVING FEATURES



5. SPINDLE

Hard chrome plated spindle column is continuously supported over nine inches engagement. Opposing high precision taper roller bearings and ball bearing provide rigidity for milling. The taper roller bearings are thermal compensated. A lip type seal retains oil on spindle column.

6. TABLE AND SADDLE

The table is fabricated from steel. The wear surfaces and entire top table surface are hardened and precision ground. The saddle consists of a meehanite iron casting.

The base consists of hardened and ground alloy, turcited steel square ways. Dip rollers provide continuous lubrication for the table and saddle.

7. BALL SCREWS

Precision hardened and ground ball screws with anti-backlash nuts position the table and spindle.

8. LUBRICATION

An electric pump automatically and intermittently injects oil to the spindle, ball screws and slides. A bell warns the operator when the reservoir oil level is low.

9. INTERFACE CONTROLS

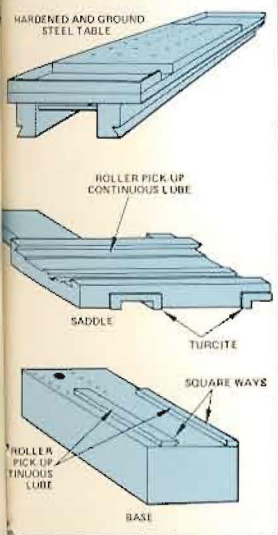
Plug-in circuit board, relays and components facilitate maintenance. Additional programmable relay sockets are included to permit future programmable options, such as pneumatic rotary indexers.

10. HEAD ELEVATOR

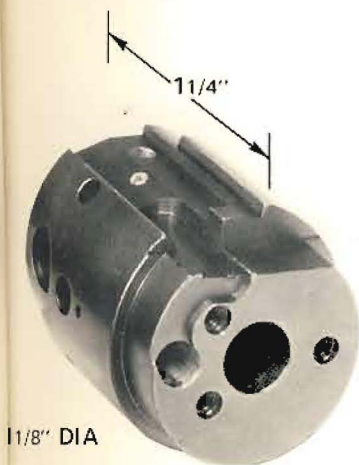
The head is raised and lowered electrically. Clamps on each side lock the head securely in place.

11. CHIP CONTROL

The very large chip pan and optional enclosure stress operator safety and shop cleanliness. The enclosure permits high speed machining with abundance of coolant.



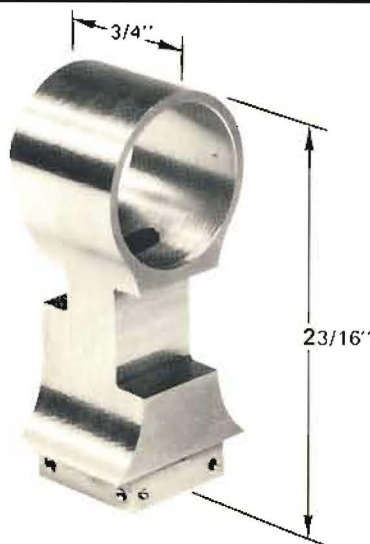
Parts Machined By The ACROLOC



MATERIAL: Aluminum

OPERATIONS: Mill, contour, bore ream, drill and tap

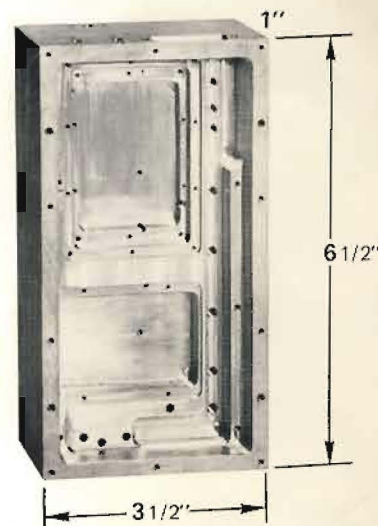
RUN TIME: 12 minutes



MATERIAL: Stainless Steel

OPERATIONS: Mill, contour, drill and bore

RUN TIME: 8 minutes



MATERIAL: Aluminum

OPERATIONS: Mill, pocket mill, bore, drill and tap

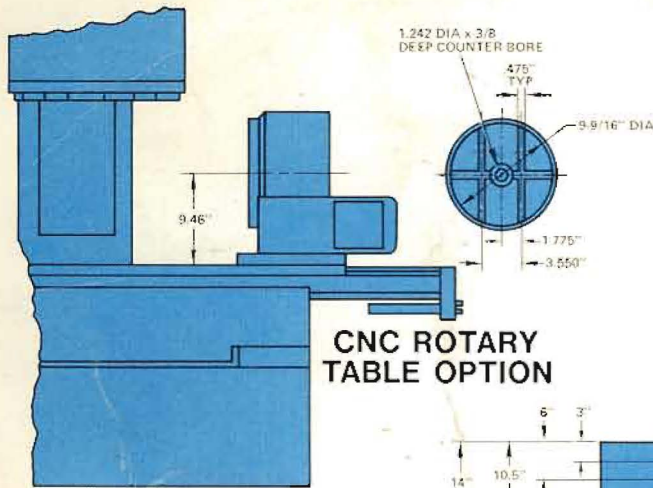
RUN TIME: 32 1/2 minutes

Sterling
MACHINERY EXCHANGE

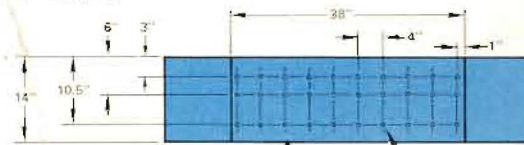
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GARY 323-2128 over Specifications:

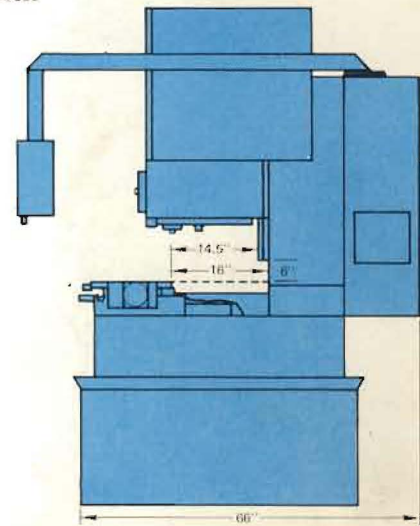
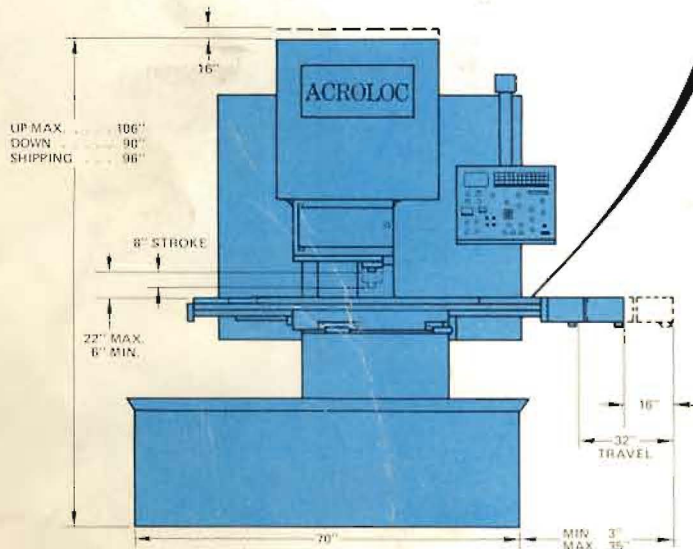
- SPINDLE SPEED: _____ 0 TO 4000 RPM
- TABLE TRAVEL: _____ 32" X axis, 16" Y axis (300" per minute)
- SPINDLE TRAVEL: _____ 8" (250" per minute)
- NUMBER OF TOOLS: _____ 12
- TOOL CHANGE TIME: _____ 2 Seconds
- WEIGHT: _____ Approximately 6000 pounds
- HEAD TRAVEL: _____ 16"



CNC ROTARY TABLE OPTION



1/2 - 12 TAPPED HOLES
x 1/2 DEEP



Design Concept

The ACROLOC is not a retrofit. It was designed in its entirety as a high speed Machining Center. All slides and moving parts are constructed for continuous operation with minimum wear. Long guides in the X and Y axes provide excellent stability and eliminate table sag as experienced on milling machine frames.

Every ACROLOC feature was specifically designed to utilize and maximize the latest developments in numerical control, variable speed motors, cutting tools, and coolants.

Full CNC Capability

The McDonnell Douglas ACTRION® Control built into the machine provides all the advantages of reliability, flexibility, and simplicity inherent in microcomputer numerical control systems. Full CNC capability includes three-axis simultaneous contouring with optional fourth axis. The built-in control means less installation time and floor space required.

In Summary

The ACROLOC utilizes the full advantage of numerical control. It is fast, flexible, simple and reliable, and moderately priced. It provides good stock removal for milling; rapid tool changes for drilling, reaming, tapping, and boring. We would appreciate the chance to prove this to you.

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