

CNC CONTROL SYSTEMS FOR VERTICAL KNEE MILLS



MILLPWR®

BY **ACU-RITE**

www.acu-rite.com

**VERSATILITY. INCREASED PRODUCTIVITY.
EASE OF USE. REDUCED SETUP TIME.**

For over 4 decades, machinists have trusted Acu-Rite® to provide affordable, practical solutions to the challenges they face every day. The tradition continues with MILLPWR by Acu-Rite, a versatile two or three axes control/three axes readout system that satisfies the need for both manual and automated operations for milling machines.

Whether you're working in a small job shop or a large manufacturing facility, MILLPWR is easy to use and is equipped with the features you need to become more competitive. Let MILLPWR be your answer to increasing your efficiency, productivity and profitability.

MILLPWR. THE REAL SOLUTION. >>>

From the moment you power up your MILLPWR system, you'll know it was built with convenience in mind. From the exceptional clarity of a large, full-color LCD display screen to the added advantage of full 3-D contouring capabilities, essential functions are only a key stroke away. The real convenience lies in its capabilities. Use MILLPWR as a full function digital read-out (DRO), as a programmable CNC control, or both. It's powerful enough to handle any job and easy enough for anyone to operate. No prior programming experience is necessary. Let MILLPWR maximize your productivity and increase your profitability.



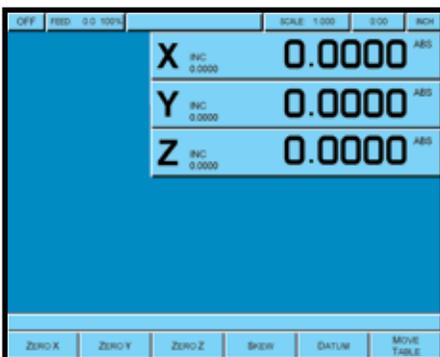
RETURN ON INVESTMENT FORMULA

Average Payback Time = Dollars Invested ÷ (A x B x C)

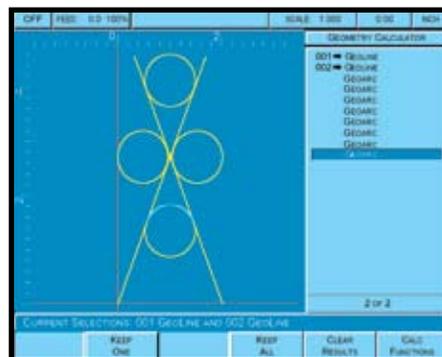
A = Machine revenue in \$/hour

B = Hours per day worked

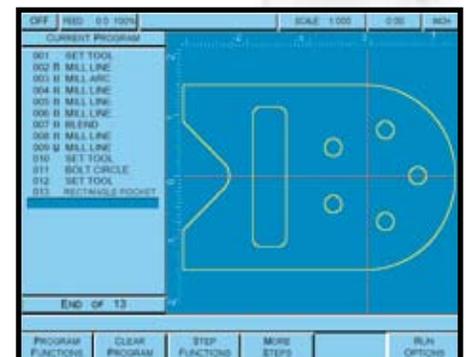
C = Percentage increase in productivity



DRO SCREEN SHOT



BUILT-IN CALCULATOR



IMMEDIATE PART-VIEW GRAPHICS



TOOL - Program tools by diameter, length offset, type direction and speed.



POSITION/DRILL - Drill, bore and position.



RECTANGLES - Pocket, frame, face and slot.



LINES/DIAGONALS - Defined by from and to points or by angles.



CIRCLES - Pocket, frame, ring and helix.



ARCS - Defined by from and to points or by sweep, center and 3-point arcs.



HOLE PATTERNS - Bolthole patterns; full & partial circles, linear row/column, rectangular frame and array.



BLENDS - Insert a corner radius between two lines, two arcs or a line and an arc.

Standardized menus make it easy for you to program common features like lines, arcs, pockets, bolthole patterns, islands, spirals and ellipses. To add a feature to your program, simply press a function key and then follow the prompts. MILLPWR also includes an "engrave" option for engraving alphanumeric characters vertically, horizontally, diagonally or along an arc.

MILLPWR®



2 OR 3 AXES CONTROL/3 AXES READOUT Significantly improves efficiency, productivity and profitability; may be used automatically or manually.

POSITION-TRAC™/FIND HOME

Easily, quickly and accurately re-establish work-piece zero at startup and after power loss.

IMMEDIATE PART-VIEW GRAPHICS

Verify part-programs in realtime before and during machining to reduce errors and scrap; use zoom features for intricate details.

10" FLAT PANEL, COLOR, LCD DISPLAY

View information instantly on MILLPWR's large, color, operator-friendly display with immediate graphic feedback.

3-D, TACTILE-FEEL, COLOR KEYPAD

Locate application-specific functions, adjust feed rates on the fly, and start/stop MILLPWR quickly and easily.

ACU-RITE PRECISION GLASS SCALES

Depend

- Superior Accuracy • Repeatability
- High Resolution (2µm/.0001")
- Fast Slew Speeds (40 inches per second)
- Closed Loop Feedback
- Elimination of Backlash Compensation
- Advanced Technology (Position-Trac)
- Proven Reliability • Certificate Calibration

JOG CONTROL

Move quickly from one location to another— using one axis at a time or any two or three axes simultaneously.

REMOTE STOP/GO SWITCH

Start and pause movement with a hand-held switch.

TRAVEL LIMITS

Establish maximum travel limits with software, instead of costly mechanical switches that reduce travel.

MENU-PROMPTED, CONVERSATIONAL PROGRAMMING Easily create part programs— follow the menu prompts and let MILLPWR do the rest.

HARD KEY MILLING FUNCTIONS

Select routine milling functions (lines, arcs, rectangles, circles, etc.) with the press of a button.

SKEW

Save time aligning parts. Measure Angles.

TOOL LIBRARY

Create a list of frequently used tools to save time while programming a part.

TOOL OFFSETS

Enter the tool's diameter and teach length, and MILLPWR will automatically compensate for the tool's dimensions while machining. This allows you to program the part instead of the tool path.

BOLTHOLE CALCULATIONS

- Calculate bolthole patterns instantly.
- Full & Partial Circles • Linear Row/Column
- Rectangular Frame • Rectangular Array

MIRROR/REPEAT/ROTATE

Easily manipulate part programs to save time and reduce program steps.

FULL 3-D CONTOURING

Create G-code files from CAD/CAM programs.

KNEE SCALE COUPLING (OPTIONAL)

Couple the movement of the quill and knee and never lose track of your Z-axis part zero.

CUSTOM POCKET

Clear a continuous closed contour that has an irregular shape for multiple passes.

ENGRAVE

Engrave alphanumeric references into a part vertically, horizontally, diagonally or on an arc.

BLEND

Insert a radius between two lines, two arcs, or a line and an arc.

EXPLODE

Create individual steps from bolthole patterns, engrave, repeat, rotate and mirror in more detail. Start programs at any step.

FEED RATE OVERRIDE

Adjust the feed rate without exiting the milling function or program.

TEACH POSITION

Use a tool, electronic edge finder or indicator to create a program from an existing part.

DXF FILE INPUT

Reduce programming time by loading part geometry from a CAD file.

EDIT CAPABILITIES

Edit program steps in groups or one at a time.

MATH FUNCTIONS

Perform math calculations on screen and transfer them directly into part programs.

- Standard (+, -, X, ÷)
- Trigonometry • Geometry • RPM

REFERENCE TABLES

Look up drill/tap sizes and surface speeds in seconds.

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Additional Products

ACU-RITE offers a complete family of user-defined, application-specific readout systems for milling, turning, grinding and EDM operations. As with all of our products, you can depend on ACU-RITE readout systems to provide you with the features you need to improve your efficiency and productivity for every machining project.

Service and Support

MILLPWR is manufactured in the United States at ACU-RITE's ISO 9001 registered facility. MILLPWR is backed by a comprehensive 1-year warranty and supported by a nationwide network of factory-trained and certified distributors. Our distribution network is readily available to provide you with prompt delivery, thorough product training and skilled technical service and support.

ACU-RITE IS AN
ISO 9001
CERTIFIED
MANUFACTURER



PROUDLY
MADE IN USA



ACU-RITE®