MILLPWR®

CNC CONTROL SYSTEMS

ACCURACY IS EVERYTHING.

For over 40 years, 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 2- or 3-axes control/3-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.

INCREASED PRODUCTIVITY

EASE OF USE
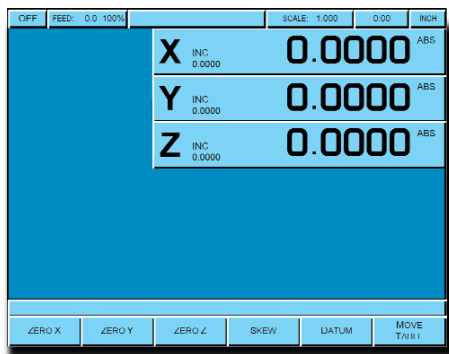
VERSATILITY

FLEXIBILITY

REDUCED SETUP TIME

ACU-RITE®

ACU-RITE INCORPORATED

One Precision Way
Jamestown, NY 14701-9699
1.800.344.2311
Fax: 716.661.1888

GREAT TOOL ROOM CNC

From the moment you power up your MILL*PWR* 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. Let MILL*PWR* maximize your productivity and increase your profitability.

Increased Productivity
MILL MORE EFFICIENTLY AND EFFECTIVELY

■ **Bolthole Calculations**
Calculate bolthole patterns instantly.
- Full & Partial Circles
- Linear Row/Column
- Rectangular Frame
- Rectangular Array

■ **Tool Offsets**
Enter the tool's diameter and length, and MILL*PWR* will automatically compensate for the tool's dimensions while machining. This allows you to program the part instead of the tool path.

■ **Tool Library**
Create a list of frequently used tools to save time while programming a part.

■ **DXF File Input**
Reduce programming time by loading part geometry from a CAD file.

■ **3-D Contouring**
Ability to import and run G-code files from CAD/CAM programs.

■ **Multiple Scale Coupling**
Couple the movement of two parallel axes (i.e. the quill and knee) and never lose track of your Z-axis part zero again.

■ **Merge**
Merge one program with another to significantly reduce programming time.

■ **Mirror/Repeat/Rotate**
Easily manipulate part programs to save time and reduce program steps.

■ **Contour**
Create a continuous contour and add finishing passes with approach and departure moves to avoid tool marks.

■ **Centerline**
Reduce setup time and math errors - let MILL*PWR* calculate the centerline between two or more points.

■ **Custom Pocket**
Program a continuous closed contour that has an irregular shape for multiple passes.

■ **Island/bosses**
Create raised features on any part.

■ **Chamfer Capability**
Program chamfers quickly - without calculating endpoints.

■ **Ellipse**
Easily programmed by height and widths.

■ **Spiral**
Program spirals with various sizes and sweep angles.

■ **Comment Step**
Add text message into any program.

■ **Jog Control**
Move quickly from one location to another - using one axis at a time or any two axes simultaneously.
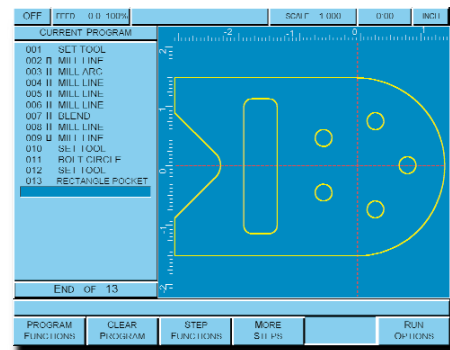
■ **Table Limits**
Easily programmable to suit your job requirements.

■ **Remote Stop/Go Switch**
Start and stop movement with a hand-held switch.

Ease of Use
CONVENIENT, USER-FRIENDLY AND MULTI-FACETED.

■ **Display**
Vivid, color, 10″ flat panel, LCD display to view immediate graphic feedback.

■ **Keypad**
3-D, Tactile-feel, Color to locate specific functions, adjust feed rates on the fly and start and stop quickly and easily.

■ **Menu-prompted Conversational programming**
Easily create part programs, edit, reverse, change, delete and copy/move steps - follow the menu prompts and let MILL*PWR* do the rest.

■ **Hard Key Milling Functions**
Select routine milling functions (lines, arcs, rectangles, circles, etc.) with the press of a button.

■ **Info Button**
Built in help screens for content specific jobs.

Built-In Calculator

Perform standard, trig, and geometry calculations and transfer them directly into part programs. Calculate RPM values simply by entering the tool diameter and the surface speed that you want to operate at.

Single-Step Milling Functions

Quickly perform simple functions such as facing, framing (circular or rectangular), drilling (positions, hole patterns) and grooves without having to program.

Reference Tables

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

Part Program Storage

Large internal part program storage capacity for convenient access anytime. Part programs can also be saved on a floppy disk or through remote storage on a computer.

Feed Rate Override

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

Engrave

For engraving alphanumeric characters vertically, horizontally, diagonally or along an arc.

Blend

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

Spindle Control Message

Displays a message to prompt operator to turn spindle on/off and set forward/reverse.

Versatility
MILL AND PROGRAM SIMULTANEOUSLY

2- or 3-axes Control/3-axes Readout

Significantly improves efficiency, productivity and profitability; may be used automatically or manually.

Disconnect Capability

Switch between 2-axis and 3-axis machining on the fly. The Z-axis servo drive unit quickly disconnects from the quill.

AMI

Control coolant pumps, oilers, misters and rotary index heads.

Teach Position

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

Built Shop Tough

Every MILL*PWR* system includes components that have been tested and manufactured to within the harshest machine shop elements.

- Ground hardened ball screws
- Heavy duty DC servo motors
- Sturdy operator features
- Die-cast metal enclosures
- Conformal coated reading heads
- Sealed keypad
- Recessed interlocking lipseals
- Armored coated cables

Flexibility/Reduced Setup Time
ELIMINATE REPETITIVE AND TEDIOUS SETUPS

Immediate Part-View Graphics

MILL*PWR* shows you the program as you create it. Seeing the program as it develops makes it easy to correct trouble spots before you machine.

Position-Trac™/Find Home

Easily, quickly and accurately reestablish workpiece zero after power loss or next morning start-up.

Skew Feature

MILL*PWR* compensates for the angle offset and helps reduce set up time if parts are clamped to table.

Explode

"Explode" a program step into several, more detailed steps for easier editing.

Edit Capabilities

Edit program steps in groups or one at a time.

Job Clock

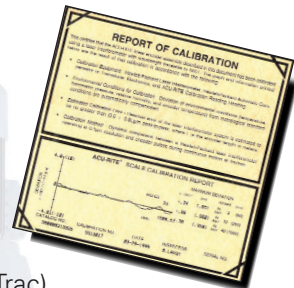Keep track of run times, monitor throughput-even estimate how long a job will take.

ACCURACY and Workpiece Quality
ACCURACY IS EVERYTHING!

ACU-RITE PRECISION GLASS SCALES

Depend on precision glass scales for:

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

MILLPWR®

Custom Kits Available For The Following Manufacturers:

Custom kits include: MILL*PWR* operator console, remote stop/go switch, 3 ACU-RITE 2µm (.0001") precision glass scales, ballscrews, servo motors, all mounting hardware & bracketry.

ACER	KENT USA
ACRA	KONDIA
ALLIANT	LILIAN
ARGO	MILLPORT
BRIDGEPORT	REPUBLIC-LAGUN
CHEVALIER	SHARP
CLAUSING	SOUTH BEND LATHE
CWT INDUSTRIES	TOP-ONE USA
JET	YCI

Note: Electronic packages available for bed mills also.
Available kits are subject to change.

Please call your local ACU-RITE® distributor for the latest information.