ACU-RITE SOLUTIONS
Powering Precision

MILLPWR^CT

Touchscreen Conversational CNC



The Natural Transition from Manual to CNC

The **MILLPWR^CT** combines intuitive operation with powerful CNC capabilities, making it easier than ever for shops to improve productivity, reduce setup time, and extend the life of existing machine tools. Whether retrofitting a manual machine or equipping a new system, **MILLPWR^CT** helps operators work smarter with a control designed around the way machinists think.

Touchscreen. Conversational. Fast.

A large color touchscreen with task-focused, customizable workflows. Conversational programming and G-code support cut setup and run times while improving part quality.

Built for the Shop Floor.

Die-cast housing, ergonomic grips, networking, and USB connectivity — tough enough for daily use. Retrofits existing machines or equips new ones.

Designed and Supported in the USA.

Designed, developed, manufactured, serviced, and supported in the USA, backed by HEIDENHAIN CORPORATION's precision engineering and support network.

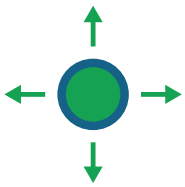
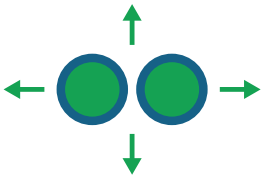
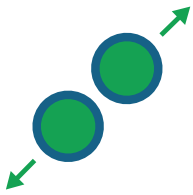
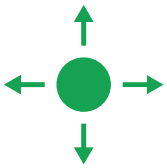
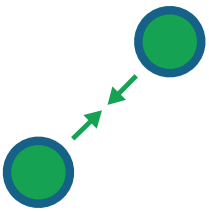
MILLPWR^{CT} Technical Data

OpMode Sidebar	Home, File, Table, Editor, Manual Mode, Program Run	
Manual (DRO Mode)	Tool Information DRO Position Datum Set ABS/INC	INCH/MM Zero Reset Near Zero Warning
Editor (PGM Mode)	Position, Line, Arc, Blend, Chamfer, Contour, Hole Pattern, Rectangle, Circle Estimated Machining Time View Graphics (2D Line, 3D Line & 3D Solid) Block Form Custom Pocket & Islands, Ramp Feed & Optimized Path Replication (Repeat, Rotate, Mirror) Engrave (Line, Arc) Program Manager Navigation Tree with Program Type Filter Long Program Names	Program Preview (Listing & Graphic with Estimated Machining Time) Auto Save (Program) G-code Program On-screen Help: User Manual Viewer (Text, Graphics) Manual/Auto Z Control: 3 Axes Feed Override: Potentiometer Spindle Control Feed Override when equipped Error Compensation Configurable Workspaces
Program Run	Configurable Workspaces: Program Selection, Document Column, DRO Display, Outline Listing, Simulation	
Machine Functions Sidebar	E-Stop, NC Start, NC Stop, Jogging, Feed Override, Spindle Override (when equipped) Keyboard, Calculator, Date/Time, Event Notifications	
Display	18.5-inch FHD resolution 1920 x 1080 LED LCD color touch flat panel	
User Interface	Graphical user interface (GUI) with touchscreen and manual panel keypad	
Display Settings	Light/Dark Mode – Left/Right Hand switchable sidebar	
Motors and Feedback	New Compact Motor/Drive Assembly provide absolute position to the CT	
Housing	Die Cast Bezel & Enclosure (Back Sheet Metal)	
Dimensions	506mm x 413mm x 165mm	
Mass	~10kg	
Electrical Requirements	AC 100 V to 120 V (±10 %), 50 Hz to 60 Hz (±2 %), input power max. 320 W	
Battery	CR2477 Lithium DC 3.0 V	
Overvoltage Category	II	
Breaker Switch	15 A (power switch)	
Number of Encoder Inputs	Up to 4	
Encoder Interfaces	TTL, Max. current 300 mA, Max. input frequency 500 kHz	
Touch Probe Interface (for KT 130)	DC 5 V (±5 %)	
Data Interface	Gigabit Ethernet (1000Base-T), USB 3.0 (Type A), max. current 500 mA (x2)	
Processor	2.9GHz Quad Core Intel® Processor	
Memory	16GB DDR4 DRAM	
Storage Capacity	64GB CF	
Operating Temperature	0° to 45° C (32° to 113° F)	
Storage Temperature	-20° to 70° C (-4° to 158° F)	
Relative Air Humidity	Max 80% in continuous operation, non-condensing Max 90% for no more than 30 days a year (randomly distributed), non-condensing	
Altitude	≤ 2000 m	
Directives	EMC Directive 2014/30/EU, Low Voltage Directive 2014/35/EU	

Protection	IP 54 (front and side panels), dust-protected, splash-proof / IP 40 (back)	
Accessories	AMI[G2] Auxiliary Machine Interface and spindle control Mounting arm kit for ram or side mounting the console to the machine Vesa 100 mounting adapter, for mounting the console to an existing mounting arm Ram mounting, 5/8-11 shoulder screw and 3/4-10 socket head cap screw Linear Encoder Feedback X, Y Linear Encoder Z standard used for Coupling Z (Quill) with (W (knee) optional)	Remote Pendant (Stop/Go) Remote Handwheel Electronic KT 130 Edge Finder and Adapter Clear vinyl protective keyboard cover for protection from dirt and debris Programming station for Windows PCs for **MILLPWR**[CT] for writing part programs and simulating machine behavior using a Windows computer

Gestures for multitouch operation

You can operate the screen of the **MILLPWR**[CT] with gestures already familiar to you from your smartphone or tablet. For example, you can zoom in or out with two fingers, or swipe to rapidly navigate through menus.

Symbol	Gesture	Symbol	Gesture
	Tap		Drag
	Double tap		Two-finger drag
	Long press		Spread
	Swipe		Pinch

Programming 2D contours made simple

Two-dimensional contours are the foundation of modern machining, and the **MILLPWR**CT provides multiple intuitive tools to create them quickly, accurately, and efficiently.

Programming with conversational function keys

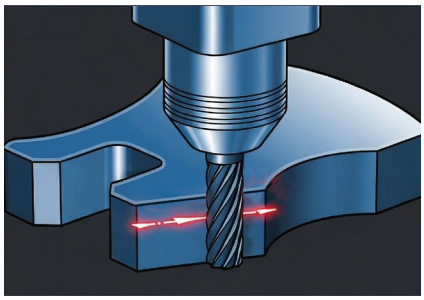
Are the contours properly dimensioned for NC machining? In other words, are the end points of the contour elements provided in either Cartesian or polar coordinates? If yes, then you can create the NC program straightaway using function buttons.

Straight lines and circular features

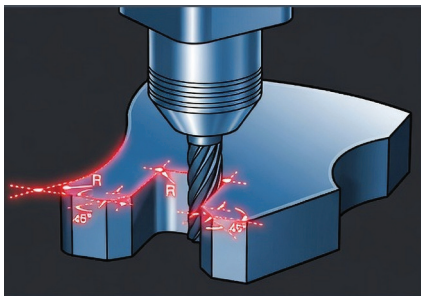
Programming linear and circular geometry is fast and intuitive with **MILLPWR**CT. Simply select the appropriate conversational function—such as a Line for straight-line movements—and the conversational interface guides you through each required input, including target coordinates, feed rates, tool compensation, and machine functions. Built-in cycles for arcs, rectangular and circular moves, chamfers, and corner radii further simplify part programming and reduce operator effort. To ensure superior surface finish and smooth tool motion, **MILLPWR**CT automatically supports tangential transitions for seamless entry and exit moves along the contour.

MILLPWRCT analyzes program steps ahead when applying cutter radius compensation, allowing it to anticipate complex contour changes and adjust toolpaths accordingly. This intelligent look-ahead capability helps prevent overcutting and contour gouging, particularly during roughing operations with larger cutting tools. The result is greater accuracy, improved surface quality, and increased confidence when machining intricate profiles.

Below are just a few examples of the many possibilities available with conversational programming.

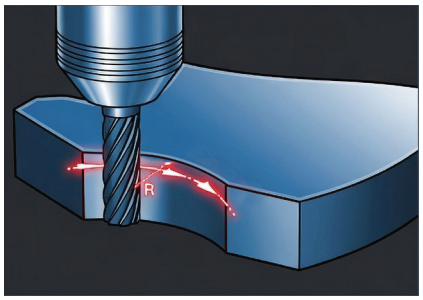


Line — Straight line defined by its end point



Blend — Corner rounding: circular path with a seamless (tangential) transition, defined by its radius and corner point

Chamfer — Chamfer defined by the corner point and chamfer length



Arc — Circular path defined by its center, radius, end point, and rotational direction



ACU-RITE SOLUTIONS
Powering Precision

ACU-RITE SOLUTIONS creates precision CNC control and digital readout systems that accelerate efficiency and capability for manual machine tool operators. Our advanced technologies are backed by the continuous innovation of HEIDENHAIN and are designed, built, and supported in the USA. **acu-ritesolutions.com**

Pair an ACU-RITE SOLUTIONS CNC control or digital readout with a durable linear encoder. Our precision glass scales provide repeatable, accurate feedback in even the harshest environments.

Certifications
ISO-9001, UL, CSA, CE

HEIDENHAIN CORPORATION · (847) 490-1191

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