

High Speed. High Precision. Low Downtime.

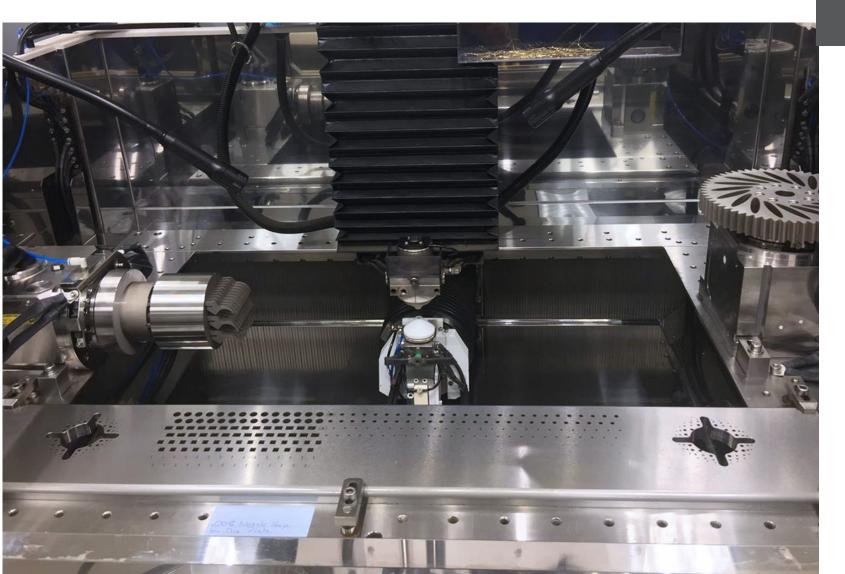


FANUC Machines

Fast, accurate, multipurpose wire EDM.

Where wire EDM is concerned, accuracy has traditionally come at the cost of speed. That's why FANUC has developed a next generation ROBOCUT wire EDM machine. The CiB series is comprised of three versatile models, including the first model with a 31.5 in X-Axis stroke. With incredibly long mean times between failures, low maintenance, longevity and excellent uptime, these FANUC ROBOCUT machines are designed to save time and drive down unit costs while ensuring superlative accuracy and cutting.

α-C8001B



Standard Features

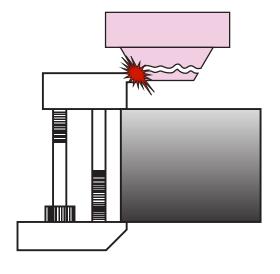


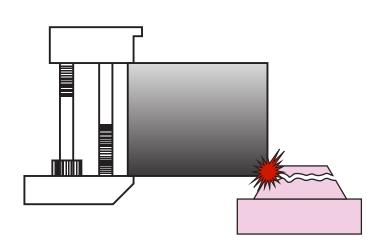
- Discharge Control *i*Pulse2
- Anti-recast Power Supply
- 3D Coordinate System Rotation
- Thermal Monitoring and Compensation
- "Core Stitch" Slug Retention
- Capable of Operating Single and Dual Axis Rotary Tables
- Auto Wire Feeding AWF3 System
- FANUC 31i-WB Controller with New iHMI User Interface
- Wire Size: 0.004" to 0.012"
- Inverter Controlled Chiller
- ROBOCUT-LINKi Offline Cutting Monitor (STD)
- Power Savings Mode
- Positioning Accuracy: ± 0.0001"
- Heidenhein Glass Encoder (0.000002")

Crash Protection

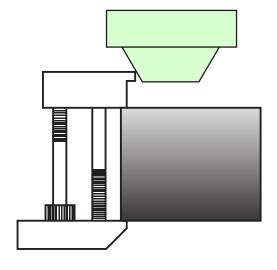
Servo data is monitored at high-speed in real time. The machine immediately stops whenever a collision occurs. No additional parts required for detection of this function.

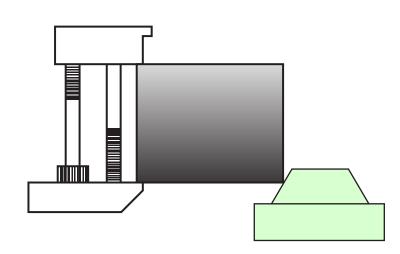
Function: OFF





Function: ON





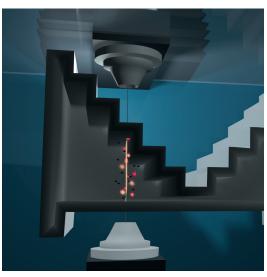
iPulse 2 Discharge Control

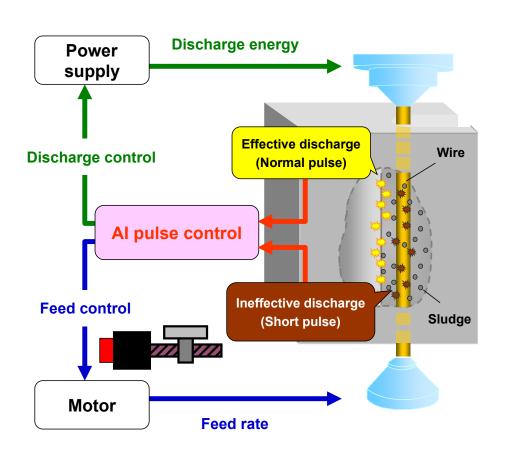
The α -CiB Series machines' iPulse 2 Discharge control improves accuracy and surface finishes with a reduced number of passes. By accurately counting the number of effective discharges and monitoring the uniformity of energy density and the discharge gap, iPulse 2 enables high precision cutting at high speeds. The speed and precision of step shape cutting is enhanced with the iPulse 2 by detecting work thickness according to the number of discharge pulses. iPulse 2 optimizes cutting speeds in stepped, multi-level, and irregularly shaped work pieces.

With iPulse 2



Without iPulse 2

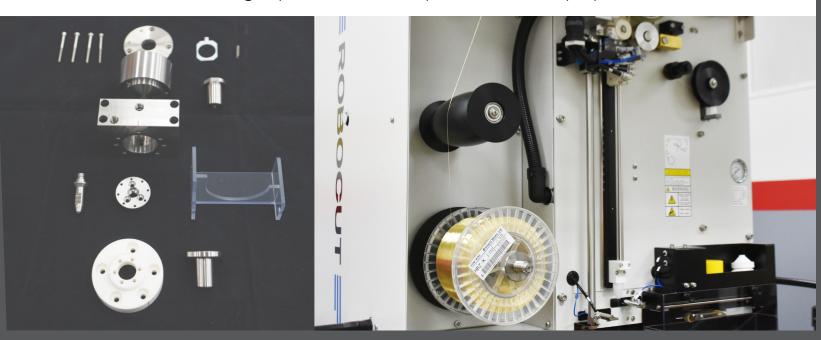


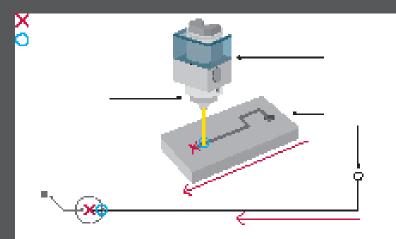


Auto Wire Feed - AWF3

FANUC's unique AWF3 Automatic Wire Feed threading technology provides fast, reliable automatic threading. To ensure reliable threading and re-threading, the EDM wire is cut electrically leaving a tapered end that is absolutely straight and burr free, even on soft wire. With the AWF3 Automatic Wire Feeding system it is now possible to Auto-Thread the wire through the maximum height of the work tank including 19.7" fully submerged tank on the C800*iB* eliminating the need to drain and fill the work tank greatly reducing Auto Wire Feed cycle times. Another advantage of the AWF3 is the ability to re-thread the wire at the break point through the EDM kerf eliminating the need to go back to the start point. Short release function is also standard with AWF3. Short release allows the machine to start machining in a short condition after the wire is connected.

Auto select between High Speed, Standard Speed, and multi-purpose.





ROBOCUT does not need to return to the starting point after a wire break. This dramatically reduces machining times and by re-threading automatically in the wire path on workpieces.

Cutting-edge CNC Controller

The centerpiece of every FANUC ROBOCUT is the most reliable CNC in the world. The FANUC 31i-WB High-Performance Control supports up to 7 simultaneously controlled axes and, by monitoring them constantly, ensures continuous protection against collisions. Programming the 31i-WB is simple, with the control's power save mode and energy recovery features making ROBOCUT especially economic to run.

- 15" touchscreen display
- \bullet intuitive iHMI home screen
- quick and easy data input
- network access
- Full function pendant Control
- precise predictive maintenance
- easy auto programming
- easy-to-use control screen
- supports multiple languages



- easy-to-clean membrane keyboard
- fiber optic cable for super-fast communication between control and machine
- energy saving electronics
- mouse and keyboard support
- predefined shortcuts

- ethernet interface
- USB interface
- CF card slot
- RS232 interface

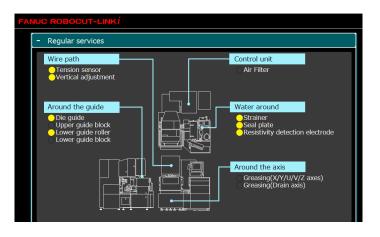
Control Screens

Remote monitoring with ROBOCUT LINKi

Equipped with a new graphic interface, ROBOCUT LINKi is an updated production and quality information management tool that allows you to monitor the status of up to 32 ROBOCUT machines in real time from remote PCs or smart devices. Specific information is available for each cutting job, and event driven push notifications can be sent to different devices. The extremely user-friendly and intuitive interface gives you access to preventive maintenance functions as well as consumable and repair services. It also allows you to transfer NC programs and run quality checks by comparing standard data to current cutting statuses.





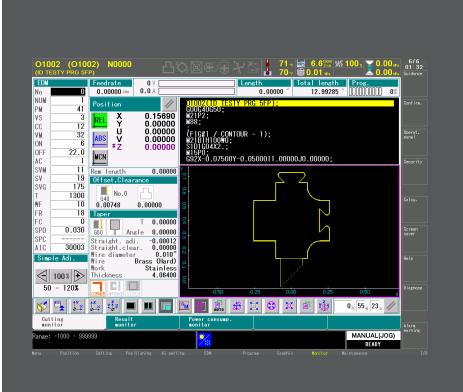






Al Setting Screen

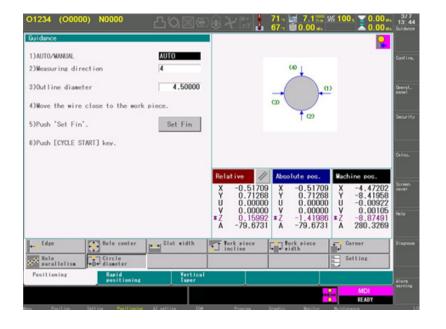
FANUC's unique AI setting screen allows the operator to easily tell the machine wire diameter, material and thickness of the work piece. The machine's AI screen gives the operator cutting technology for single pass through multiple passes depending in the criteria of the job.



Cut Monitor Screen

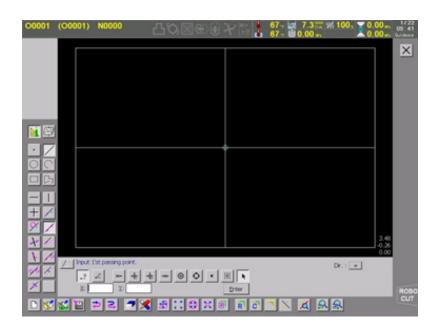
FANUC Wire EDMs cut monitor screen gives the operator everything needed when cutting parts to confirm a variety of information is correct. From this screen real time adjustments can be made to the cutting technology by using the simple adjustment function.

Control Screens



Positioning Screens

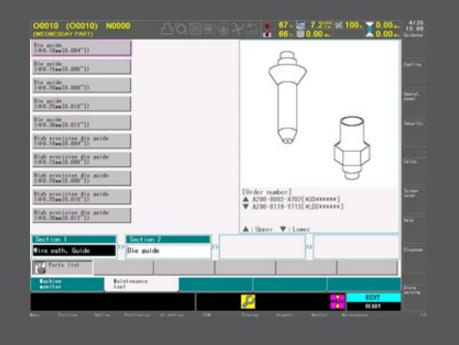
FANUC Wire EDMs simple to use pick up modes allows operators to easily find the location of their work pieces with many different methods by either using the wire or the optional probe.



Auto Programming Screen

FANUC Wire EDMs Auto Programming function allows the operator to create geometry from scratch or to import a DXF file. Afterwards the NC program is generated automatically and is ready to use to cut the part.

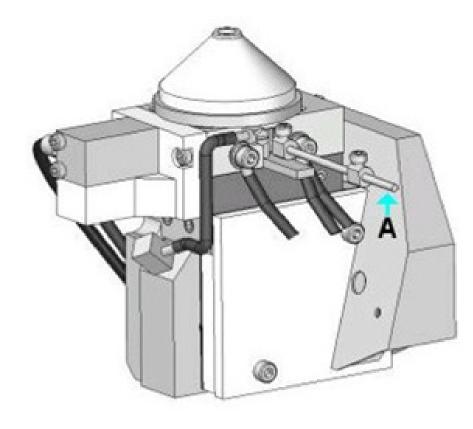
Control Screens

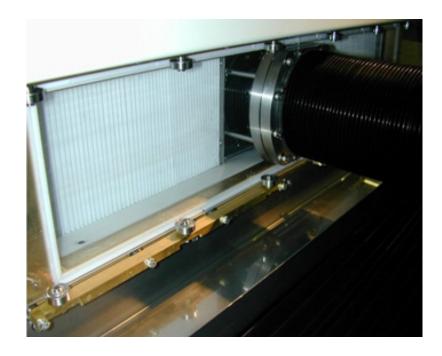


Maintenance Screens

FANUC Wire EDMs maintenance screens allows the operator to find part numbers in many different areas of the machine. This saves time of having to search through manuals.

FANUC Wire EDMs maintenance screens give the operator step by step instructions to perform regular maintenance duties simply and easily.



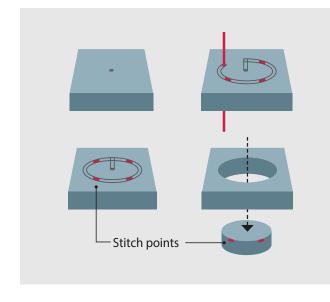


Seal Plate Design

FANUC Wire EDMs simple but extremely effective seal plate design continuously flushes clean water across the face to keep the dirty water from the cutting process to contaminate it. Also the simple 2 piece construction allows quick and easy removal for cleaning.



FANUC's new ROBOCUT α -CiB Series comes standard with Core Stitch function, which allows you to better plan your jobs and extend unmanned machining hours. Stitch points are set by the operator without any pre-programming. This is the ideal solution for long, unmanned machining and multi-workpiece cutting processes. When the job is done you simply tap out the cores manually without any risk to the machine. No more glue tabs or magnets needed to hold slugs.



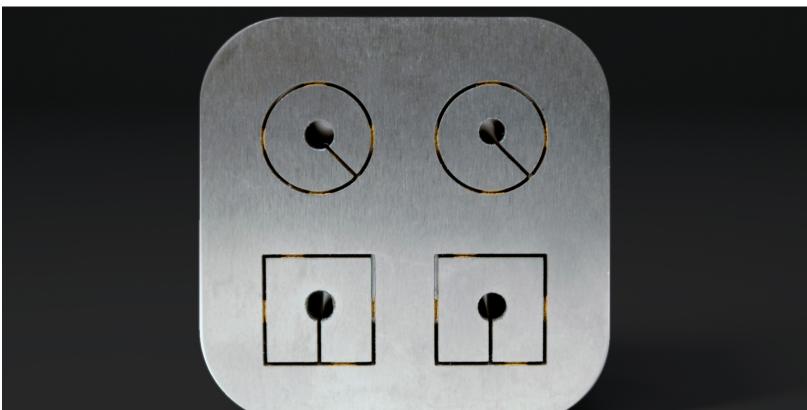






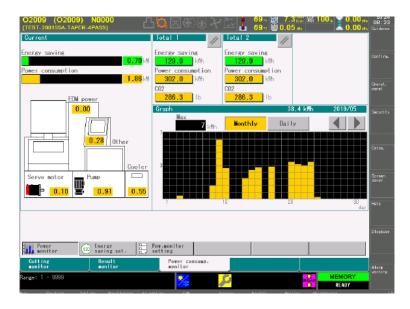
Ball Screw Design

FANUC Wire EDMs ball screws are made with the highest quality material, double anchored and pretensioned to ensure the accuracy and reliability. FANUC also covers their ball screws ensuring the shop atmosphere is kept away to protect the screw and its longevity.



Designed to Save Energy

FANUC ROBOCUT CNCs, motors, amplifiers, generators and pumps are engineered to deliver the lowest possible energy consumption through the use of intelligent energy management. Every component has been chosen to provide the highest possible performance for the least possible energy. Additional smart features to reduce energy consumption further include power monitoring, sleep mode, LED lighting, inverter pumps and cooling and power regeneration.



The Energy saving overview function makes possible the tracking of energy being consumed during machining or on standby. Power saving interventions such as auto start-up by timer, switching off flushing pumps, screen savers, sleep mode, and auto power off all contributing to additional savings.

Power monitor

This energy saving feature provides an overview of how much energy is being consumed and shows where savings can be made.

Sleep mode

This feature saves energy by automatically putting the machine into sleep mode during periods of inactivity.



Easy Automation

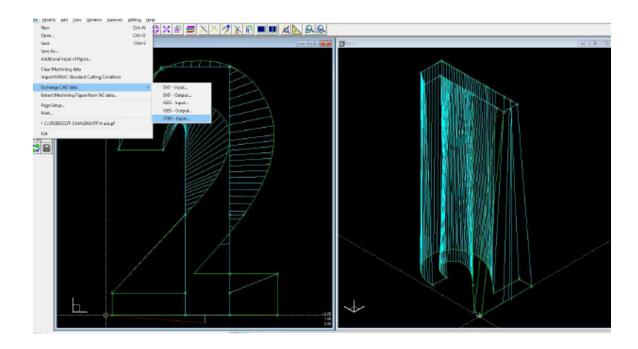
FANUC ROBOCUT and FANUC Robots combine to make the perfect unattended machining solution. All FANUC products speak the same language, and share common servo and control platforms - making learning your robotic cell extremely easy. Methods Automation will work closely with you to design and build an automated EDM solution, tailored specifically for your needs.

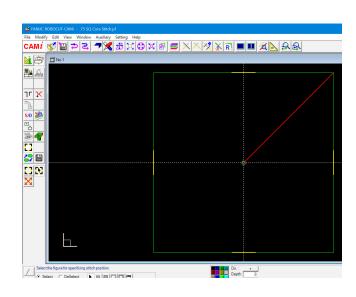


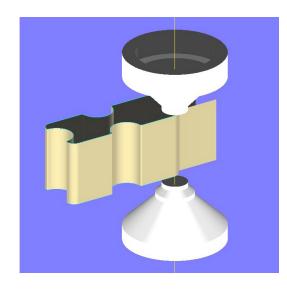
CAMi (optional)
Options

CAMi

ROBOCUT CAMi is programming software designed specifically for the FANUC Wire EDM. This powerful but user friendly software incorporates the AI technology cutting conditions allowing the operator to choose the number of passes, surface finish & accuracy from the software instead and include this in the NC programs. Core Stitch functions, coreless cutting, 4-Axis taper programs as well as many other standard FANUC Wire EDM functions are easily accomplished through CAMi software.







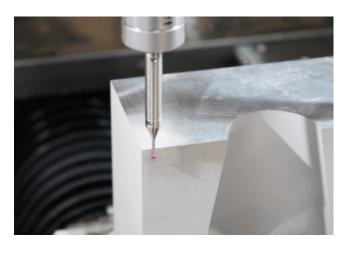
66 lb Wire Auto Loader

Retrofittable for up to 140 hours of extended unmanned operation.



Renishaw Touch Probe

For precise automatic positioning and workpiece alignment.



Options C800iB

Rotary Table

Adding a single axis FANUC CCR or twin axis table is simple and will increase the productivity of your ROBOCUT α -CiB Series wire EDM.



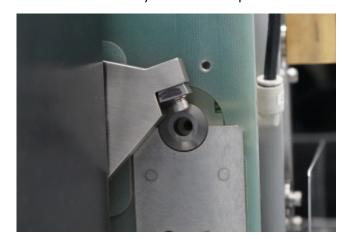
LED Triple Alarm Light

Red Yellow and Green column light indicating the operating status of the machine.



Wire Chopper

Designed and built to run long hours without maintenance. Essential to adding automation to your EDM operation.



| Features | Standard | Metric | |
|--------------------------------------|-----------------------|---------------------------|--|
| Maximum workpiece Dimensions | 49.2" x 38.3" x 12.2" | 1250 mm x 975 mm x 310 mm | |
| Maximum workpiece weight | 6600 lbs | 3000 kg | |
| X / Y axis table travel | 31.5" x 23.6" | 800 mm x 600 mm | |
| Z axis travel | 12.2" | 310 mm | |
| U / V axis travel | ± 3.937" | ± 100 mm | |
| Maximum taper angle | ± 30° / 6" | ± 30° / 150 mm | |
| Minimum step increment of the drives | 0.00004" | 0.0001 mm | |
| Wire diameter | Ø 0.004" ~ Ø 0.012" | Ø 0.10 mm ~ Ø 0.30 mm | |
| Maximum wire weight | 35 lbs | 16 kg | |
| Machine weight (approx.) | 9260 lbs | 4200 kg | |
| Controller | FAN | FANUC 31 i-WB | |
| Part program storage size (MB.) | | 4 | |
| Acoustic noise level | | | |
| LPA (dB) | | 64 | |
| LPC peak(dB) | | 81 | |
| Optional Features | | | |
| Z axis 500 | | | |
| z axis travel | 20.1" | 510 mm | |
| Maximum workpiece dimensions | 49.2" x 38.3" x 20.1" | 1250 mm x 975 mm x 510 mm | |
| 45° die guide | | | |
| Maximum taper angle | ± 45° / 1.6" | ± 45° / 40 mm | |
| 30 kg wire feed unit | | | |
| Maximum wire weight | 66 lbs | 30 kg | |

