



**HIGH PRECISION WIRE CUT
MACHINE**

CNC WIRE CUT MACHINE - CMX-ECO SERIES

MODEL SPECIFICATIONS

Specification	CMX-ECO 4535 S/M	CMX-ECO 5545 S/M
Table Size (X × Y)	700 × 440 mm	780 × 540 mm
Table Travel (X × Y)	450 × 350 mm	550 × 450 mm
Max. Z-Axis Travel	500 mm	500 mm
Max. Workpiece Weight	400 kg	500 kg
Max. Cutting Angle (Optional)	±3°, (15°, 30°)	
Positional Accuracy	0.015/300 mm	
Repeatability	0.01 mm	
Wire Moving Speed	11.5 m/s	
Cutting Speed	Standard: 120–140 mm²/min Maximum: 160–180 mm²/min	
Power Supply	Single Phase: 220V/50Hz Three Phase: 415V/50Hz (2.0 kW)	
Best Finish (Ra)	Single Cutting: ≤ 2.5 µm Multi Cutting: ≤ 1.5 µm	
Wire Diameter	Ø 0.12–0.25 mm	
Dimensions (L × W × H)	1300 × 1200 × 1400 mm	1600 × 1300 × 1500 mm
Net Weight	1200 kg	1350 kg

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Technology Overview

- Technology: Wire EDM (Electrical Discharge Machining)
- Working Principle: Cuts conductive materials using a thin electrode wire that follows a programmed path.
- Wire Diameter Range: 0.12–0.30 mm (0.004"–0.012")
- Material Compatibility: Conductive materials.
- Applications: Die making, mould manufacturing, and machining of heat-treated materials.

Key Features & Technical Capabilities

- Lowest Running Cost
- Reusable Molybdenum Wire
- Multi-Pass Facility (Optional)
- High Speed & Medium Speed Operation
- High Accuracy with Fine Surface Finish
- Coolant Oil or Low-Cost Soap Gel Cutting Fluid
- Low Cost, Low Maintenance & Low Power Consumption
- Material Saving Design
- Straight Line & Circular Arc Interpolation
- Automatic Center Find
- Automatic Edge Find
- Pulse Control at Wire Break
- Power-Off Position Memory
- Auto Stop After Machining Completion
- Auto Lock After Run Command
- High Rigidity & Reliable Machine Structure
- Large Travel with High Cutting Speed
- Independent Four-Axis U-V Operation
- Standard $\pm 3^\circ$ Taper Cutting Attachment
- Supports 0.12–0.22 mm Molybdenum Wire (Down to 0.08 mm)
- Machining Accuracy: 0.015 mm (Up to 0.01 mm)
- Surface Roughness: Ra 1.6–2.5 μm
- Closed-Loop Glass Scales on All Four Axes (0.005 mm Accuracy)
- Advanced CAD/CAM Software with File Transfer & Translation Capability

CNC Pulse Generator

- Display of Cutting Rate
- Display of Machining Time
- Single Block Execution
- Operator Help & Error Message Display
- Windows XP Operating Platform
- Gap Short Recovery
- Color CRT Display

Machine Tools Structure

- Precision Ball Screw for X & Y Table Movement
- Fine Pitch Screw for U & V Axis Movement
- Stepper Motor for X, Y, U & V Axes
- Flexible Job Stand for Stable Workpiece Mounting
- Variable Speed AC Motor for Wire Drum Assembly
- Simultaneous Control of X, Y, U & V Axes

Standard Accessories

(Included):

- PC with Windows 7 / XP operating system
- Integrated Coolant System
- Precision Ball Screw in X, Y Axis
- Durable Steel Cover
- Complete Tool Box
- Wire Vertical Setting Block
- DRO – 2 Axis (X & Y)

Optional Accessories

- LM guide for X,Y axis
- Taper attachment for 15degree\30degree cuts
- High Pressure Coolant Tank
- Lifting Motor for Z-Axis
- Molly Wire
- Gel
- Wire Tightening Pulley
- Guide Wheel Pulley



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