

Functions and Features

Fully equipped with useful functions for the manufacturing workplace, featuring refined style, high performance, energy savings, simple operation and vast expertise

Revolutionary MV1200R / MV2400R

ADVANCE PLUS



ADVANCE PLUS control offers maximum efficiency using a fully optical drive system (MV1200R/2400R)

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ADVANCE PLUS x LLS
Machining time reduced up to 17% (R-series only)

ADVANCE PLUS x ODS
Corner accuracy ±1µm

ADVANCE PLUS x ODS
Circular accuracy within 2µm

ADVANCE PLUS x ODS x PFC
Power consumption reduced up to 69% (R-series only)

ADVANCE PLUS x McAfee
Anti-virus protection

McAfee is a registered trademark of McAfee, Inc. in the United States and other countries.

DMX S³ Digital Matrix Sensor

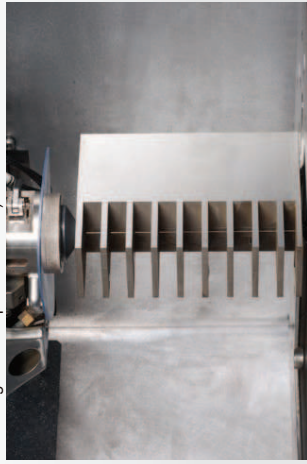
Ultimate optimization of EDM technology
Super Digital Control
Digital Technology optimizes all enhanced functions required by Wire-cut EDMs

Innovative automatic wire threading



Refer to page 9-10

- New annealing system greatly improves wire threading with a curl ratio of less than 10%
- Wire break point insertion is greatly improved for thick workpieces
- Wire threading mode can be selected to match the workpiece shape (i.e., jet stream on, jet stream off and submerged break point insertion)

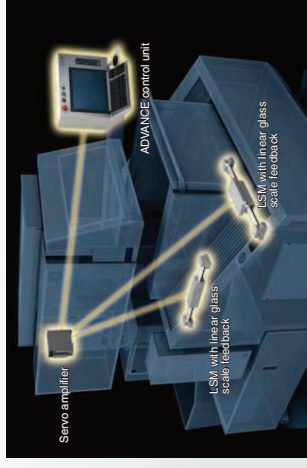


Improved machining accuracy



Refer to page 11-12

- Equipped with a linear shaft motor (LSM)
- Mitsubishi Electric's optical drive system uses fiber-optic communications between the control unit, servo amplifier and linear motor to improve machining accuracy



Improved productivity



Refer to page 13-14

- Faster machining is realized with improved power-supply performance (Rz3.5µm/Ra0.45µm with 3 cuts) (Rz2.0µm/Ra0.28µm with 4 cuts)
- All machining conditions are provided (speed condition, nozzle release condition)

Machining time comparison for Rz3.5µm with 3 cuts



Wire electrode: φ0.2 (008) / BS
Workpiece: Steel (SKD11) 160mm (2.4")

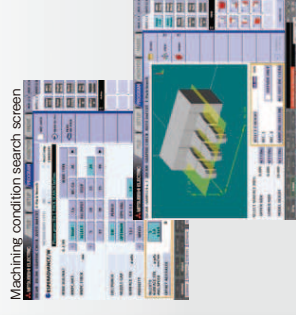
*Compared to conventional Mitsubishi Electric Wire-cut EDM (FA Series)

Easy operation



Refer to page 15-16

- Search function for machining conditions is improved by a narrow-down function
- Job scheduling adjustments use the schedule call back, extra job insertion and ME-pack feature
- ME-pack is a package of machining processes including offset, machining speed and adaptive control settings



3D CAM screen

Energy savings, low running cost



Refer to page 17-18

- Power consumption reduced up to 69%
Conventional model: 100%
MV-S: Reduced 55%
MV-R: Reduced 69%
- Filter cost reduced up to 45% (Automatic changing filtration flow rate)
Conventional model: 100%
MV-RS: Reduced 45%
- Wire consumption reduced up to 46%
Conventional model: 100%
MV-S: Reduced 42%
MV-R: Reduced 46%
- Ion exchange resin cost reduced up to 25%
Conventional model: 100%
MV-RS: Reduced 25%

*Compared to conventional Mitsubishi Electric Wire-cut EDM (FA Series)