**EA8PV ADVANCE**

**Uniting High-accuracy Technology with High-speed FP-V Power Supply Control Technology**

**Machining accuracy ±0.003mm achieved (plate 1)**

**Compact, high-performance, high-accuracy EDM**

(Note 5) The machining accuracy follows the Mitsubishi Electric machining conditions.

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**Outstanding screen operability**
- 10.4-inch LCD touch panel
- Machining condition search (shape EXPERT)

**Utilizing CAD data**
- Machining instruction information (STEP) can be read from CAD/CAM
- 3D data (Parasolid) can be read in

**High-speed FP-V power supply**
- High-speed and electrode wear are both improved
- Tungsten carbide machining circuit is standard equipment
- Energy-saving power supply is standard equipment
- 20% reduction compared to Mitsubishi Electric FP power supply
- FP-V power supply extension unit suitable for processing resistant material (option)

**Ultrafine finish machining**
- Ultrafine finish surface FP-V is provided
- Machine narrow pitch connections using the narrow gap circuit

**Advanced machining control**
- High-speed jump is realized with machining stabilizing jump control (option)

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**Outstanding machine operability**
- Delivers optimal performance at the back of the machine to improve workability
- Easy cleaning of the dielectric fluid reservoir
- Three slotted tank of automatic elevation tank (option)

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**Advanced machining control**
- High-speed jump is realized with machining stabilizing jump control (option)

**High-accuracy technology perfect for ultra-precise machining**
- Thermal displacement compensation function, refined with the MA2000, is provided
- High-accuracy positioning is possible with shift electrodes and multiple machining times

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**Outstanding machine operability**
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EA12V ADVANCE
Best-selling EDM Featuring Highly Advanced Accuracy
and Productivity

Outstanding screen operability
Utilizing CAD data
High-speed FP-V power supply
Advanced machining control
High-precision die-sinking EDM with FP-V power supply

High-accuracy technology
High-quality finishing control

Precautions

- When the 22% electrode holder is used when the built-in #2 axis automatic clamp option is provided.
- The weight of the electrode holder can be adjusted when the #2 axis automatic clamp option is provided.
- The weight of the #2 axis automatic clamp option is provided.
**EA ADVANCE Series Product Introduction**

**EA28V ADVANCE**

New High-speed, High-accuracy Medium-sized Model with Outstanding Operation and Maintenance Performance

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**High-performance die-sinking EDM with FP-V power supply**

**Outstanding screen operability**
- **12.1-inch XGA Touch Panel**
- Machine conditions to search (shape EXPERT)

**Utilizing CAD data**
- Machine data (EXPERT) can be read from CAD/CAM

**High-speed FP-V power supply**
- Finishing the die and minor and major variable machining performance equal to the EA12V ADVANCE
- Optimized machining technology enables low-wear machining with graphite (60%)
- FP-V power supply extension unit suitable for processing resistant material (option)

**Advanced machining control**
- Machine reduces the long machining time (option)
- Adjusts high-volume fluid flow rates through the range of a high-speed finish to a high-speed rough finish (without control option) without improving machining speed for rib shapes and electrode waste in finished mold shapes

**High-rigidity and high-accuracy technology**
- Machine stability is improved including the machine structure and stiffness
- Ultra-soft Electric original thermal displacement compensation function and semi-cabinet structure are adopted
- Machine temperature fluctuation suppressed to a minimum with fluid circulation

**Outstanding machine operability**
- The three-sided drop tank improves access for work setup (with a working tank multi-position function)
- Standard high-speed manual operation box with coordinate display
- Easy workpiece loading using hand lifter
- Machine zero point position of each axis stroke corresponding to minimum tool length

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**Machine unit (standard specifications)**

| Model | Machine unit | Dimensions (W x D x H) | Total system weight | Spindle MVH 20T MVH 500 (4.9 - 19.8)
|-------|--------------|------------------------|---------------------|------------------------------------------
|       |              |                        |                     | 1.5 to 180 kg                           |
|       |              |                        |                     | 1.9 to 180 kg                           |
|       | AUTO (X = y x) |                        |                     | 1.5 to 180 kg                           |
| Spindle |                        |                        |                     | 1.9 to 180 kg                           |
| Working |                        |                        |                     | 1.5 to 180 kg                           |
| Inner dimensions (W x D x H) |                        |                        |                     | 1.9 to 180 kg                           |
|                |                        |                        |                     | 1.5 to 180 kg                           |
| Table |                        |                        |                     | 1.9 to 180 kg                           |
| Dimensions (W x D x H) |                        |                        |                     | 1.5 to 180 kg                           |
|                |                        |                        |                     | 1.9 to 180 kg                           |
|                |                        |                        |                     | 1.5 to 180 kg                           |

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**Specifications**

- Machine control unit: 4-axis/ATC (option)
- Operation panel: Standard 10.4-inch touch panel
- Control unit: EM610T (ATC) specification
- Control code: EM510T specification
- Drive code: EM510T specification
- Water tank: 5-gallon (18.9 liters)
- Coolant: EM610T specification
- Spindle: 20T MVH 500 (4.9 - 19.8 kg)
- Maximum speed: 30,000 rpm
- Stroke: 18 mm (0.708 inches)
- Feed rate: 1,000 mm/m (39.4 inches/min)
- Resolution: 0.1 mm (0.004 inches)

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**Dimensions between table and electrode mounting surface**

| SRP-1900 | EROWA | MICRO | 5005
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