



Reaching New Levels with Evolutionary Technology and the New ADVANCE Control Unit

Ergonomic design
User-friendly keyboard and mouse
Easy-to-view screen (15-inch)
Intuitive operations using touch-panel control

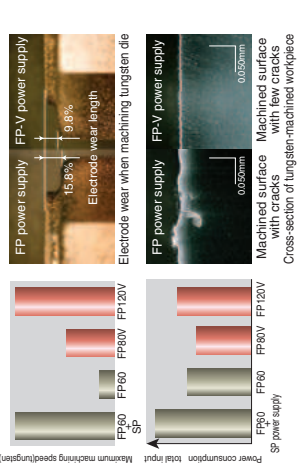
Advanced V Technology

Refined style, high-performance energy-saving power supply, ample know-how

Machining

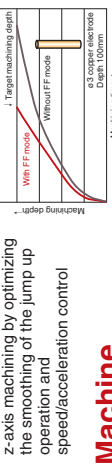
FP-V power supply

- Circuits suitable for various machining
- Machine even tungsten carbide at high speed with low electrode wear
- Energy-saving power supply reduces operating cost



Machining stabilizing jump control : SS jump 4

- High-speed jump is improved in Z-axis machining by optimizing the smoothing of the jump up speed/acceleration control



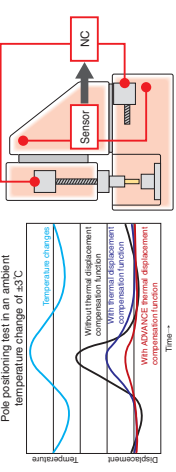
Machine

Semi-cabin structure

- Reduces thermal displacement caused by temperature changes

Thermal displacement compensation function (all EA ADVANCE models)

- Reduces thermal displacement caused by temperature changes
- Stabilizes the accuracy during long-time continuous machining (temperature change of +3°C)



New Control Unit with Three Functions

Easy-ADVANCE Pursuing operability and ease-of-use (refer to page 13 for details.)

Outstanding operability

- Graphical workpiece or electrode measurement screen
- Machining support ESPERADVANCE, Machining condition search (shape expert)
- Machining conditions suitable for various shapes can be created
- Machining condition methods, such as gate, threads and helical, which are difficult to program, are supported with dedicated screens
- Simple table-format programming



3D-ADVANCE Use advanced 3D data in the workshop

Fully utilizing 3D CAD data

- Import machining instruction information (EPX) and 3D models of electrodes and workpieces (Parasolid) from the CAD/CAM
- Use 3D data in the workshop to visually confirm machining position, and assist set-up and machining
- Calculate changes in the electrical-discharge machining area from the 3D model, and optimize the machining conditions (3D-EXPERT)



Net-ADVANCE Advanced support services using net technology

Update system software via the Web!
This is available only to DIAX-NET.COM members.

- Update system software to the latest version from the support website DIAX-NET
- Simultaneously update EDM contents (e-manual, alarm guide, technical know-how)

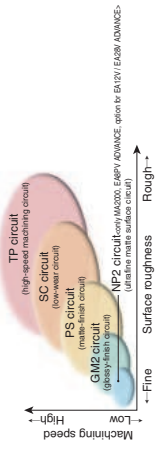


DIAX-NET.COM <http://www.diax-net.com/>

* The ADVANCE control unit is incorporated only in ADVANCE models.

Fine-finishing circuit(NP2, GM2 circuits)

- Optimum surface machining aiming to eliminate polishing
- Realizes Rz 0.4µm (Ra 0.06µm) with matte and glossy surface



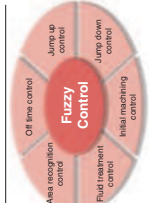
Wear suppression circuit, narrow gap circuit

- compatible with small underrize amounts of 0.015 to 0.030mm per side



Machining adaptive control

- Automatically adjusts to optimum conditions according to the machining state
- Performance of machining with graphite electrode is improved (GF2 control option)



Working tank

- The three-sided drop tank improves access for work setup
- Adjustable high-volume fluid flow rates increases the range of no-flush machining



EA12V ADVANCE

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