Changes for the Better





## EDM Systems & Wire EDM Systems

Mitsubishi Electric Corporation Nagoya Works is a factory certified for ISO14001 (standards for environmental management systems) and ISO9001(standards for quality assurance management systems)







# NC EDM SYSTEMS

### **Die-sinking EDM**

#### A variety of models are available for compact high-precision machining to large high-production machining applications. Mitsubishi helps to improve our customers' productivity with total solutions covering machine, generator, adaptive control, automated systems and networks.

#### Flagship model integrating advanced technology

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Machining accuracy ±2µm achieved\* Temperature control technology enables high-accuracy machining Servo control technology attains both accuracy and speed (\* The machining accuracy follows the Mitsubishi machining conditions.)

MITSUBISHI

### EA Advance

Advanced series pursuing high speed, high accuracy and outstanding operability • New "Advance control unit" pursues ease-of-use • New high-speed V generator responds to a broad range of machining needs • High-speed and low-wear machining realized with GF2 control (option) and graphite electrode

# Wire EDM SYSTEMS

### Wire EDM

Ample lineup corresponding to needs for part machining to super-accurate mold machining. Mitsubishi helps improve our customers' productivity with total solutions covering machine, generator, adaptive control, automated systems and networks.

#### PA055 Flagship series incorporating a transcendental machining performance

MITSUBISHI

Machining accuracy ±2µm achieved\*
Pursuing super-high accuracy with intensive temperature control
High-grade machining of tungsten materials enabled with ASC (option)
(\* The machining accuracy follows the Mitsubishi machining conditions.)

FA Large Model

for machining large workpieces · V500 generator compatible with high-speed machining · Powerful specifications for long-time machining



Basic machine with outstanding cost performance Lineup compatible with compact parts to large workpieces V350II generator suitable for machining special materials and difficult to cut materials

Advance

Global standard model attaining high speeds

Various power control technology realizes high speeds and high accuracies

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· New "Advance control unit" pursues ease-of-use

Mechanism enables stable operation over a long time

and high performances

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## EA Large Model

Highly rigid machine for machining large workpieces Large working tank and large table compatible with tall and

large workpieces Improved setup performance realized with automatically

elevating front door (EA40/EA50)

Long-time non-stop machining enabled with automatic filter (option)

### Wire EDM Systems Line up



#### Application table

	Applicable wire diameter (mm/in)										Applicable power circuit					
Model	0.02/	0.03/	0.05/	0.07/	0.1/	0.15/	0.2/	0.25/	0.3/	0.36/	Standard power circuit	PF circuit	DAE	FS5	DFS	ASC
FA10S ADVANCE	-	-	-	-	0	0	0	0	0	-	AE3 + fine finishing circuit	0	-	-	-	-
FA1OS ADVANCE(V-Package)	-	-	-	-	0	0	0	0	0	[0]	V500 + fine finishing circuit	0	0	-	-	-
FA20S ADVANCE	-	-	-	-	0	0	0	0	0	-	AE3 + fine finishing circuit	0	-	-	-	-
FA2OS ADVANCE(V-Package)	-	-	-	-	0	0	0	0	0	[0]	V500 + fine finishing circuit	0	0	-	-	-
FA10PS ADVANCE	-	-	[0]	[0]	0	0	0	0	0	-	AE3 + fine finishing circuit	0	-	-	[0]	-
FA20PS ADVANCE	-	-	[0]	[0]	0	0	0	0	0	-	AE3 + fine finishing circuit	0	-	-	[0]	[0]
BA8	-	-	-	-	0	0	0	0	0	-	V350 I	[0]	-	-	-	-
BA24	-	-	-	-	0	0	0	0	0	-	V350 II	[0]	-	-	-	-

			Ap	plicable	e wire o	diamete	er (mm/	Applicable power circuit								
Model	0.02/	0.03/	0.05/ 0.002	0.07/	0.1/	0.15/ 0.006	0.2/	0.25/	0.3/	0.36/	Standard power circuit	PF circuit	DAE	FS5	DFS	ASC
FA30VM	-	-	-	-	-	-	0	0	0	[0]	V500	-	-	-	-	-
FA30VM(Z600)	-	-	-	-	-	-	0	0	0	[0]	V500	-	-	-	-	-
FA40VM	-	-	-	-	-	-	0	0	0	[0]	V500	-	-	-	-	-
FA50VM	-	-	-	-	-	-	0	0	0	[0]	V500	-	-	-	-	-
PA05SM	0	0	0	0	0	[•]	[●]	-	-	-	AE3 + FS circuit	-	-	0	-	[0]
PA20M	-	-	[0]	0	0	0	0	0	0	-	AE3 + fine finishing circuit	0	-	-	[0]	[0]

\*4: "V" in advance V refers to V-Package.

\*5: Some options are not retrofitable. Contact Mitsubishi Sales Office or dealer for more details.



#### Model Stroke (mm/in) Max. workpiece weight (kg/lb): 1500/3300

#### · DV20M

: X:500/19.7 Y:350/13.8 Z:300/11.8 Max. workpiece dimensions (mm/in): 1050/41.3×800/31.5×295/11.6

\* The machining accuracy follows the Mitsubishi machining conditions.



#### Stroke (mm/in) Max. workpiece weight (kg/lb): 3000/6600

Model

FA30VM (Z600 specifications) : X:750/29.5 Y:500/19.6 Z:420/16.5 Max. workpiece dimensions (mm/in): 1300/51.1×1000/39.3×605/23.8 Wire diameter (mm/in) : 0 2/0 008 to 0 36/0 014 (0.36/0.014: AT not possible)

## Automated system



Contact Mitsubishi for more information on the automated systems

### **NC EDM Systems Line up**



#### Combination of standard generator and special generator

Marial		Standard po	ower supply	(selective)		Special power supply						
Model	FP80V	FP120V	FP60MA	FP60EA	FP100EA	FP100B	SP	NP2 circuit	Narrow gap circuit	GF2 control		
Maximum machining current[A]	80	120	80	80	120	270	_	-	-	-		
EA8PVM ADVANCE	0	—	-	-	-	-	—	O	O	•		
EA12VM ADVANCE	0	0	-	-	-	-	—	-	0	•		
EA28VM ADVANCE	0	0	-	-	-	-	—	-	0	•		
MA2000M	-	-	0	-	-	-	0	0	-	-		
EA8M	-	-	-	0	-	-	0	-	-	-		
EA12DM	_	_	-	0	0	-	0	-	_	-		
EA30M	_	-	-	0	0	0	_	-	-	_		

List of compliance: 🔘 Standard equipment 🔿 Option which can be retrofit 🔹 Option which cannot be retrofit 🚽 Incompatible The specifications of options and retrofits differ according to the country and region, so please check with your deale

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List of compliance: O Standard equipment O Option which can be retrofit • Option which cannot be retrofit Incompatible The specifications of options and retrofits differ according to the country and region, so please check with your deal





#### Iode

Stroke (mm/in) Max. workpiece weight (kg/lb): 1000/2200 Max. electrode weight (kg/lb) : 50/110 Max. fluid level (mm/in) : 400/15.7

EA12DM : X:400/15.7 Y:300/11.8 Z:300/11.8 Max. workpiece dimensions (mm/in): 1000/39.3×650/25.5×350/13.7





#### Mode

Stroke (mm/in) Max. workpiece weight (kg/lb) : 5000/11000 Max. electrode weight (kg/lb) : 300/660 Max. fluid level (mm/in) : 450/17.7

#### EA40M

X 1000/39 3 Y 600/23 6 7 450/17 7 Max. workpiece dimensions (mmin) : 1500/59.0×1000/39.3×400/15.7

#### Automated system



Configuration: EA12V Advance × 2 units + EDCHANGE

A two (three) unit control system consisting of EA8PV ADVANCE (elevating specifications), EA12V ADVANCE, EA28V ADVANCE and MA2000M, etc., is also available. Contact Mitsubishi for more information on the automated systems.



\* Not all models are supported for all countries and regions.
\* The specifications of machine differ according to the country and region, so please check with your dealer.
\* Processing data provided in this brochure is for reference only.