3.1 Machine Main Unit

Table 3-1 shows the general specification for the main unit of the EDGE3 and EDGE3S machines.

TABLE 3-1 MACHINE MAIN UNIT SPECIFICATION

Description	Specification	Units
Travel Range		
Longitudinal direction (X-axis)	450	mm
Cross direction (Y axis)	300	mm
Vertical direction (Z axis)	320	mm
Distance from electrode bracket to table top	230 ~ 550	mm
Table Dimension (W x D)	600 x 450	mm
Maximum work piece weight	800	kg
Work tank inner dimension (W x D x H)	800 x 550 x 350	mm
Work tank capacity	140	L
Electrode attachment plate size	Ø125	mm
Max. electrode mass (including holder)	50	kg
Machine dimensions (W x D x H)(without separator)	1950 x 2100 x 2330	mm
Machine dimensions (W x D x H)(with separator)	2675 x 2100 x 2330	mm
Machine mass (including NC power supply unit)	5000	kg
Rapid traverse	5000	mm/min
Least input increment	0.001	
Simultaneous controlled axes	3 axes	
Origin point (X axis)	(+) end	
Origin point (Y axis)	(+) end	
Origin point (Z axis)	(+) end	

3.2 Dielectric Fluid Supply Unit

Table 3-2 shows the general specification for the Dielectric Fluid Supply Unit used in the EDGE3 and EDGE3S machines.

TABLE 3-2 DIELECTRIC FLUID UNIT SPECIFICATION

Description	Specification	Unit
Reservoir Capacity (including bed tank)	380	L
Total dielectric fluid quantity	380	L
Delivery rate	80	L/min
Circulation pump drive motor	1.1	KW
Stirring pump	0.5 (Std. machine) 1.5 (S machine)	KW
Outer Dimensions (W x D x H)	1265 x 675 x 1089	mm
Weight (excluding dielectric fluid) (except bed tank)	200	kg

3.3 Automatic Fire Extinguisher

Table 3-3 shows the general specification for the Automatic Fire Extinguisher used in both EDGE3 and EDGE3S machines.

TABLE 3-3 AUTOMATIC FIRE EXTINGUISHER SPECIFICATION

Description	Specification	Unit
Model	FMEA10-5	
Capacity of extinguishing agent	3.0	L
Number of sensor	1	pc
Number of injection nozzle	1	pc
Dimension (W x D x H)	210 X 167 X 522	mm
Type of extinguishing agent	Light water 6% solution (foam extinguisher)	
Type of sensor	Bimetal type spot sensor	

TABLE 3-3 AUTOMATIC FIRE EXTINGUISHER SPECIFICATION

Description	Specification	Unit
Activating temperature	60	°C
Power supply (Voltage)	200	V
Power supply (Phase)	Single Phase	
Power supply (Frequency)	50 / 60	Hz
Manual System	Push-button type	

3.4 Bed Tank

Table3-4 shows the general specification for the bed tank used in both EDGE3 and EDGE3S machines.

TABLE 3-4 BED TANK SPECIFICATION

Description	Specification	Unit
Dimension (W x D x H)	1110 x 2075 x 860	mm
Weight (excluding dielectric fluid)	2150	kg

3.5 Dielectric Fluid Cooler

Table 3-5 shows the general specifications for the Dielectric Fluid Cooler used in both EDGE3 and EDGE3S machines.

TABLE 3-5 DIELECTRIC FLUID COOLER SPECIFICATION

Description	Specification	Unit
Model	MPDC-05-N-B	
Standard cooling capacity	2.3@(60Hz) 2.1@(50Hz)	KW
Maximum ambient temperature	5 ~ 40	°C
Thermal sensor	Thermistor	
Condenser fan motor power	12	W
Condenser fan motor (number of pole)	4	Poles

TABLE 3-5 DIELECTRIC FLUID COOLER SPECIFICATION

Description	Specification	Unit
Outer dimensions (W x D x H)	360 x 420 x 755	mm
Weight	45	kg

3.6 Dimensional Drawings

The following sections show the dimensional drawings for EDGE3 and EDGE3S machines with and without sludge separator.