

Machine Specifications

		DUO43	DUO64
Travels (X × Y × Z axes)	mm	450 × 300 × 320	650 × 400 × 420
Travels (U × V axes)	mm	± 101 × ± 101 (with limitation)	←
Table working area (Square)	mm	710 × 560	910 × 660
Maximum workpiece size	mm	710 × 560 × 300	910 × 660 × 400
Maximum dielectric fluid height	mm	365	465
Maximum workpiece weight	kg	800	1200
Height to table surface	mm	1000	←
Wire electrode diameter	mm	φ 0.1, φ 0.15, φ 0.2, φ 0.25, φ 0.3	←
Maximum taper angle		± 15° / 100 mm *1	←
Dielectric fluid tank capacity	L	700	990
Deionizing resin		20-liter pack	←
Dielectric fluid filters		4	←
Machine dimensions (W × D)	mm	1975 × 2815	2200 × 3140
Machine height (h)	mm	2250 *2	2422
Floor space (W × D)	mm	2920 × 3905	3100 × 4440
Machine weight	kg	5000	6000

*1 In the case of PICO precision guide system, MEGACUT-A wire is required for taper machining larger than 10°. And Machinable taper angle larger than 2° is limited according to jet nozzle diameter.

*2 When opening filter case door, Machine height is 2411 mm.

MGW-S6 Power Supply Unit

Item	Specification
Circuit type	Transistor pulse circuit
Maximum machining current	30 A
Current settings	128 levels
Voltage settings	35 levels
OFF intervals	256 levels
Automatic voltage regulator	Standard
Cooling system	Forced air cooling
LL generator circuit	Standard

Jet nozzle diameter and start hole diameter (for machining with nozzle contact)

Plate thickness (mm)	Start hole diameter (mm)											
	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4~	
0 ~ 30												
0 ~ 50												
0 ~ 100												

0.5 mm dia. jet 0.7 mm dia. jet
1.0 mm dia. jet 1.5 mm dia. jet

Standard Specifications

- Submerged machining specification
- Split precision guide system
- Square shape table
- Automatic water level setting
- Automatic wire threading unit
- Fine-hole automatic wire threading unit
- Standard needle (φ 2 mm)
- Dielectric fluid cooling unit
- Work light
- Automatic power failure recovery
- Power supply line filter
- Portable multifunction control panel FPB2
- Track ball type mouse
- Ethernet 10 / 100BASE-TX
- USB flash memory interface
- Part program storage length 1000 m
- H.E.A.T. (Only Split precision guide system)

Optional Specifications * ◆ Optional Equipment

Machine

- PICO precision guide system (including jet nozzle φ 1 mm)
- 0.05 μm scale feedback (X, Y axes or X, Y, U, V axes)
- NC index unit
- Workpiece air blower for rust prevention
- Special customer-specified machine colors
- ◆ Large-capacity wire reel loader (20 kg, 30 kg)
- ◆ Jet nozzle (φ 0.5, 0.7, 1.5 mm) (Only PICO precision guide system)
- ◆ Cartridge-type deionizing resin
- ◆ Workpiece clamp set
- ◆ Workpiece support
- ◆ Automatic water supply unit
- ◆ Workpiece washing gun
- ◆ Angle cut set (Only φ 0.2, 0.25 mm wire with Split precision guide system)
- ◆ Maintenance set
- ◆ Standard supplies set (running kit)

Control System

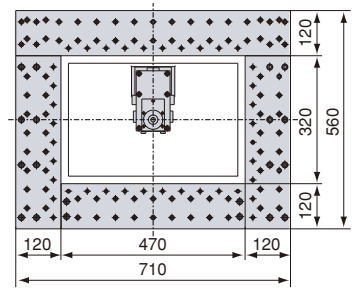
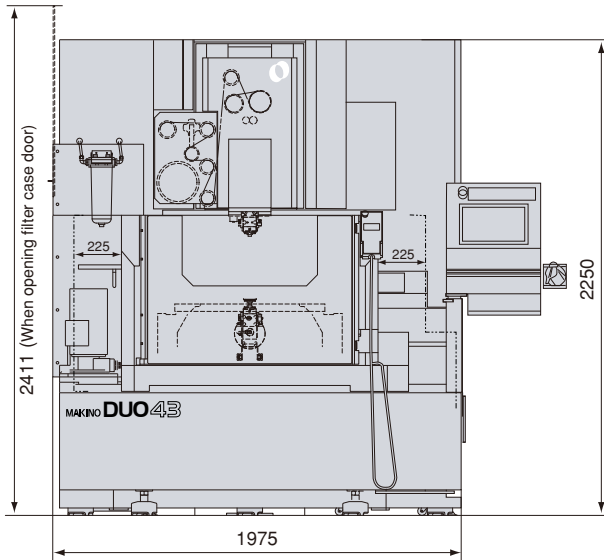
- ◆ Alarm signal tower (1, 2 or 3 lamps)
- ◆ Program master
- ◆ Additional part program storage (total 1000 + 2000 = 3000 m)
- ◆ Circuit breaker
- ◆ RS232C interface

* Optional specifications are not retrofittable.

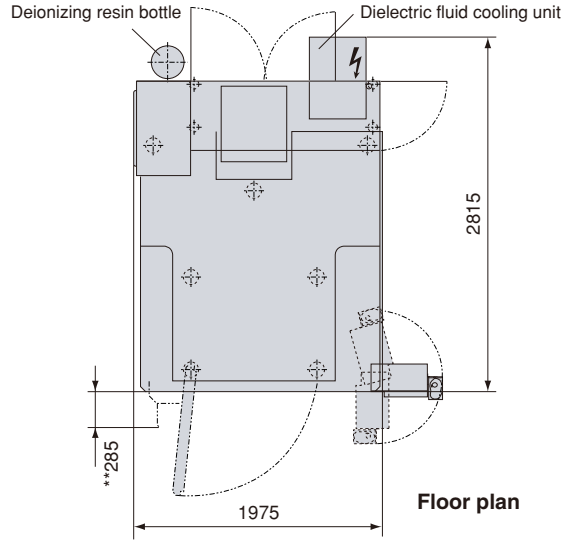
**Specifications may differ according to area, please contact your nearest Makino sales representative for details.

DUO43

Front view



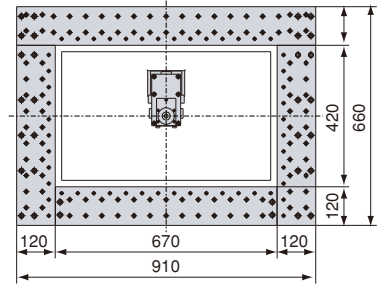
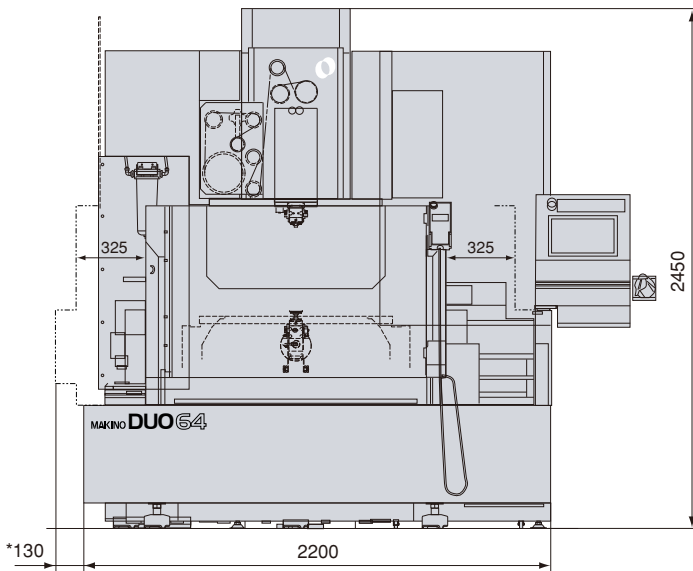
Table



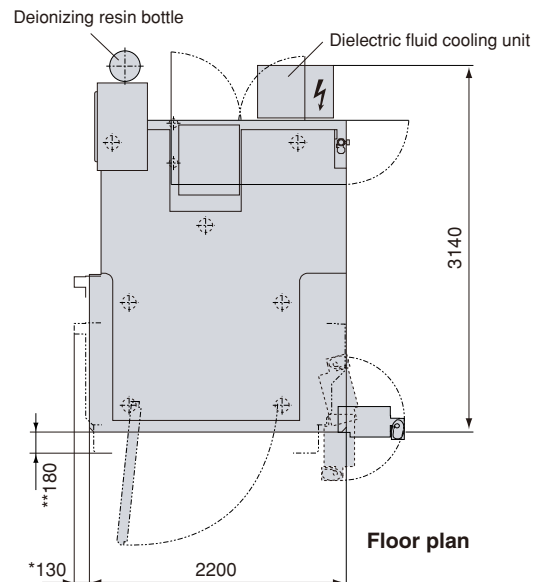
Floor plan

DUO64

Front view



Table



Floor plan

* Work tank position at X axis stroke end

** Work tank position at Y axis stroke end