

DELIVERY SPECIFICATION

ORIGIN Capacitor Type Projection Welding Machine
MODEL JP-3A-629-621

- ① Delivery Specification
- ② External View, Welding Machine
- ③ External View, Power Supply Unit

Sign to Acknowledge Receipt with Date:	
Correction(s)	<input type="checkbox"/> Corrected <input type="checkbox"/> Not Corrected

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after signing to acknowledge receipt thereof.

DELIVERY SPECIFICATION

WELDING MACHINE DEPT.,
ORIGIN ELECTRIC CO., LTD.

1. Customer :

2. Model Designation : Origin Condenser Type Projection Welder
Model: JP-3A-629-621

3. Applications Classified : LD hermetic sealing

4. Requirements for Work-piece
 - 4.1 Designations for Work-piece
 - (1) TO-46: TO-46 Header (with a lead length 13.46mm)
Flat window cap
 - (2) TO-56: TO-56 Header (with a lead length 10mm)
Slanted window cap 2 types

4.2 Remarks

- (1) Welding position, upper: cap
lower: header
- (2) Header positioning system : TO-46 Centering by guide pins
TO-56 Centering by guide jig

5. Quality of sealing

5.1 Hermeticity

$1 \times 10^{-9} \text{Pa} \cdot \text{m}^3 / \text{sec}$ or less, by fine leak test. Except for the leakage that may take place due to a defective work-piece.

			CHECKED	CHECKED	CHECKED	ISSUED
REV.	DATE	REVIEWED				

6. Power Supplies

Input Power: AC 220V., Single phase, 50Hz, approx. 4.5kVA

Compressed Air Source: pressure 0.5 thru 0.7MPa

Compressed Air Consumption: Max. 150N-liters per minute

N₂ Gas Source: Pressure 0.4MPa

N₂ Gas Consumption: Max. 70N-liters per minute (for Dry box)

Dry Air: 0.2MPa 70N-liters per minute (for Dry box)

7. Configuration

(1) Welding Unit

Model No.	Outside Dimensions (mm)	Mass kg.
JP-3A-629	(wide × deep × high) approx.1500×1200×1800	approx.1000

(2) Power Supply Unit

Model No.	Outside Dimensions (mm)	Mass kg.
D-621	(wide × deep × high) approx.470×670×1110	approx.90

8. Specification of welding Unit

Pressurizing System: vertical press type by compressed air.

Electrode Pressure: 1.47kN(at 0.5MPa)

Electrode Stroke: Approx. 60mm

Throat Depth: 90mm

Shape of Electrode: Special electrode with jig

Water Cooling: unavailable

Welding transformer turns ratio: available

9. Specification of Electric circuit unit

Rated Input: Voltage 220V. Single phase, capacity 1.5kVA

Rated output: 761J

Charging rate: Approx. 1.5 seconds at 450 volts

Charging voltage regulation: 50 thru 475 volts

Rectification: Single-phase full-wave rectification

Polarity selection: Available (by change bar)

Cooling system: Air cooling

Charging control monitor circuit: End-of-charge detector

10. Specification of Condenser Unit

Energy capacity: 761J

Capacitance: 6,750 μ F(1 bank)

11. Productivity

(1) Machine Tact : 5 second per piece

(2) Equipment Working Ratio: 99.8%

(3) Yield: 99.8%

12. Specification of Trays

12.1 Cap Tray: TO-46

(1) Dimensions: 138W \times 140D \times 8H

(2) Number of caps loadable: 200pcs./tray(20 \times 10)

(Loading direction: lens unit side down)

12.2 Cap Tray: TO-56

(1) Dimensions: 138W \times 140D \times 8H

(2) Number of caps loadable: 200pcs./tray(20 \times 10)

(Loading direction: lens unit side down)

13. Remarks

(1) The dry box shall be made of SUS. It has removable pass boxes located on the right side.

The front door is made of glass, being so constructed as to be openable and closable.

(2) N₂ flow meter is arranged at the upper in front of the body to control the dry box itself, and the pass box.

(3) The dew point control shall allow a temperature of -40°C to be secured inside the dry box. (at an N₂ inlet dew point of -76°C and at 70N-liters per minute)

(4) The dew point meter shall be provided with an alarm feature. If the set dew point should be exceeded, the feature will cause the equipment to stop the running while announcing an acoustic alarm.

(5) The vacuum required to handle the work and to secure inside the electrode shall be generated with the vacuum pump attached inside the body.

14. Miscellaneous Accessories

- (1) Welding current monitor : 1 set
- (2) Dew point meter(sensor detected—20°C thru -80°C) : 1 set
- (3) Vacuum pumps : 1 set
- (4) Standard tools : 1 set
- (5) Instruction manual (in English) : 2 copies

15. Spares

- (1) Upper electrode tip (TO-46 and TO-52): 3 each (total 6pcs.)
- (2) Lower electrode tip (TO-46 and TO-52): 12 each (total 24pcs.)

16. Coating Color: Our standard color (Munsel 5Y7/1 ivory)

17. Installation, Wiring and Piping

The present specification shall not cover the works of wiring and/or piping to interconnect the Welder with your factory power supplies (electric power, compressed air and N₂ gas) and the foundation work to install the equipment.

Neither input cables nor piping tubes shall be attached to the equipment.

These shall be provided by customer so that they are ready for use accordingly.

18. Warranty Period

The equipment specified herein shall be warranted for a period of one (1) year following your acceptance inspection or for a service time of 4,000 hours (whichever may come earlier).

The warranty specified herein, however, shall be provided subject to the prerequisite that you do not fail to implement maintenance and cleaning operations as described in the instruction manual.

In the event of any failure and/or rupture that may have taken place despite your normal use and that should be deemed duly attributable to us ours, we will furnish you with a part or parts required free of charge for the period referred to above only.

Any expenses that may be incurred on the replacement and/or adjustment shall be settled down separately.

We are, further more, released from any liabilities and/or responsibility for those consumables, maintenance parts, pipes, tubes and bulbs which we are to specify separately at our own discretion. A deviation or deviations from what has been referred to herein above, if any, should be quoted separately here from.