

用途：

- 可焊材料：碳鋼、不鏽鋼、黃銅、紅銅、磷銅、鋁、鎳、鎢鎢合金、錫、鈣、鉍合金及一些特殊金屬。
- 家電產品：電視機、錄影機、空調機、燃氣用具、電風扇、電熱水壺、電暖器、微波爐等。
- 電子電器：電池、電晶體、晶體管、電流控制器、電容器、電阻器、熱繼電器、接觸器、電熱元件、各種開關引線。

APPLICATIONS:

- Weldable materials-carbon steel, stainless steel, brass, copper, phosphorus copper, silver, nickel, nickel chrome alloy, tungsten, zinc, aluminum alloy and some special metals.
- Household electric wares: TV set, VCR, air regulator, gas burning utensil, electric water pot, electric warmer, and micro-wave stove, etc.
- Electronic wares: battery, transistor, current controller capacitor, resistor, heat relay, contacts, relay, heating elements, switch lead wire, etc.

加工成比例 WELDING SAMPLE



系列產品 PRODUCT SERIES:

- 自動空壓點焊機
- 自動空油壓閃焊機
- 自動空油壓輪焊機
- 電容儲能電阻點焊機
- 電氣加熱擠壓鍛管機
- 特殊型狀材料成型機
- 數控式自動捲鋼機
- 多點式網類焊接機
- 各式自動化CO₂ 氣焊燒焊機自動化設計製造
- 各種相關產品生產設備整體設計製造
- Air Pressure Automatic Spot Welding Machine
- Air Hydraulic Flash Butt Welding Machine
- Air Hydraulic Pressure Automatic Seam Welder
- Condenser Welding Machine
- Electrical Heating Upster
- Wire Flater Machine
- Fully-Automatic Coil Winding Machine
- Multi-Point Net Welding Machine
- Manufacturing & Designing for Various CO₂ & TIG Welding Machine Automation
- To Manufacture and Design of Full Set of Plant Equipments for Various Relative Products.

標準型規格 STANDARD SPECIFICATIONS

型號 Model	定格容量 Rated Capacity(KVA)	定格週波數 Rated Frequency(HZ)	輸入電壓 Input Voltage(V)	定格出力 Rated Force(WS)	電極壓力 Electrode Pressure(kgf)	冷卻水 Cooling Water (g/min)
DJ-G05	0.5	50/60	220	300	10	AIR
DJ-G10	1.0	50/60	220	500	90	AIR
DJ-G15	1.5	50/60	220	750	150	AIR
DJ-G30	3	50/60	220-440	1500	250	5
DJ-G50	5	50/60	220-440	2500	300	6
DJ-G70	7	50/60	220-440	3500	500	6
DJ-G90	9	50/60	220-440	4500	500	6
DJ-G110	11	50/60	220-440	5500	800	6
DJ-G150	15	50/60	220-440	7500	800	8
DJ-G200	20	50/60	220-440	10000	1000	8
DJ-G250	25	50/60	220-440	12500	1200	12
DJ-G300	30	50/60	220-440	15000	1400	12

▲ 可依世界各地電壓，由使用者地需要設計製造 Suitable for worldwide voltage, design & making according to local need.
▲ 機器機型依工件形狀設計，以達最佳使用功效，容量不變 The machine shape is designed as per workpiece, ensuring its function. The capacity won't change.



CE CCC ISO 9001 TTQS

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微電腦精密控制 電容儲能點焊。
電容儲能浮凸焊接機

Micro-computer Precision Control
Condenser Welding Machine
Condenser Projection Welding Machine



信機電股份有限公司

JIE RONG ELECTRICITY MACHINERY INDUSTRIAL CO., LTD.



DJ-G15



DJ-G30



DJ-G50



DJ-G110



DJ-G10

DJ-G05



電容儲能電阻焊接機特色

■ 消耗電力

電容式電源容量和交流式相比, 可以說是非常小(約 1/10-1/30), 而且可以有效的利用電力, 是一種省電型的焊接機。

■ 焊接外觀

極少有熱變形和氧化現象, 可免除後續流程的加工。

■ 穩定性

熔接強度的誤差少, 可以符合(JIS規格)要求。

■ 經濟性

電極鋼頭等消耗零件費用及使用的電費極省, 降低營運成本。

■ 耐久性

加壓機構及半導體體的充電放電部分都已考慮能長久確保優越的。

■ 本機關鍵部分全部採用歐美日進口元件, 其中氣動元件為日本產品, SCR(電阻流控制器)為歐、美、日產品, 電容為與現代日本機種所使用儲能式之專用急充放電電容相同, 控制系統為美日進口元件組裝。

除了上述特色之外, 又因為非鐵金屬和具類金屬之間也可以焊接, 所以和以往使用鉚釘或焊錫的加工方法相比較, 可以不必使用補助材料提高效率, 節省材料費用和工資, 對企業的合理化相當有助益。

Features of Condensed Type Resistor Welding Machine

■ Condensed type just needs 1/10 - 1/30 current if it is compared with alternative current type. It can make use of the power efficiently. It is a power-saved type welding machine.

■ Very less hot warp and oxidization save the processing in follow-up steps.

■ Stability : Less welding tolerance conforms to JIS vehicle specifications.

■ Economy : The consuming parts such as copper electrode is very less, and power consumption is very less. It reduces the operation cost.

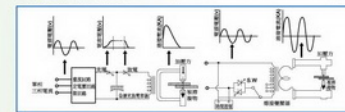
■ Durability : The pressure adding device and the semiconductor charge and the discharge circuits are considered to keep their superiority.

■ The key components are imported from Europe, the USA and Japan. Among them, the pneumatic components are made in Japan, and SCR (Silicon Controlled Rectifier) is a product made in Europe, the USA or Japan. The condenser is same as the condenser used in Japanese.

■ Machines. It is a storage type condenser for special use on the instant charge and discharge. The control system is made of the USA or Japanese components.

In addition to above features, the non-iron metal and the different kind of metal can be soldered together. It doesn't need auxiliary material, but increases efficiency if it is compared with the conventional method of rivet and solder. It is very helpful for the enterprise to save material charge and the salary.

充放電控制回路圖 Discharge Power Control Circuit Layout



電容式電阻焊接機原理

如上圖所示, 將焊接時所需的能量(電量)充入電容器內, 再將此能量瞬間放電焊接容器內, 釋放出大量儲能電流。

因此, 和以往的交流式焊接機比較的話, 它可以用十分之一的小電流即可完成儲能, 同時瞬間放電的電流能量可以被有效的利用, 所以和其他焊接方式比較, 熱效率變得非常少。

電容器最高可以充電475V, 可以改變充電電壓來調整所需的焊接電流, 因為充電的電壓是由半導體自動控制的, 即使電源電壓不穩定, 充電電壓並不會改變, 只要設定一次就可以用經常固定的焊接電流進行焊接作業。

The principle of condensing type resistor Welding machine

As Figure 1 shown, store the power needed for welding into the condenser. Then, discharge this power instantly into the welding container. It will discharge a large welding current. It is like to pump the water from a well to a bucket. Then, pour the water suddenly from the bucket.

Therefore, it just needs one tenth or less current to finish the work if it's compared with the alternative current type welding machine. Besides, the current of instant electricity discharge can be used efficiently. Its heat efficiency is better than other welding types.

The condenser can be charged 475V maximum. The charge voltage can be adjusted to meet the need of welding current. The charge voltage is controlled by semiconductor, so the charge voltage is not changed even if the voltage is unstable. You just need to set one time, and always have a fixed welding current for the welding needs.



DJ-G70



DJ-G90



DJ-G200



DJ-G300