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### IKING NEW - SSR Series Capacitor Discharge Stud Welding Machine



#### Technical Features:

\*Applied utility model patent "Capacitor discharge stud welding machine", suits carbon steel, stainless steel, copper, aluminum and alloy with diameter M2-12mm welding on sheet metal.

\*Widely used in shipbuilding, Electric switch equipment, Communication devices, light industry machinery, household appliances, vehicle and rail vehicle manufacturing field.

\*Charging Voltage can be adjusted continuously, it makes the best welding parameter preset.

\* Protection circuit ensures safety of operators and equipment. Short charging time, high efficiency.

\* Optimally designed, the third generation circuit controls the welding process, offering high quality work.

#### SSR Series Special Features

\* Resistance completely removed, eliminate the biggest source of heat.

\* Lower operating temperature helps extending working life effectively.




\* Smaller cooling fan, lower noise level.

\* Self designed completely strong and weak current isolation by Texas Instruments Isolation Chip.

\* Industrial level electric components, wide range operating temperature  $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$ . ( $0^{\circ}\text{C} \sim +70^{\circ}\text{C}$  for commercial level)

\* Semiconductor discharge switch with much longer working life instead of common used relay in market.

## Technical Parameters:

Parameter	SSR Series Capacitor Discharge Stud Welding Machine		
Model	SSR-1600	SSR-2500	SSR-3150
Picture			
Stud Range	Φ3-6mm	Φ3-8mm	Φ4-10mm
Max. Output Energy	1600J	2500J	3150J
Capacitance	25200μF	99000μF	108000μF
Voltage Adjustment Range	35-95V	35-195V	35-195V
Charging Time	0-3s		
Weld Speed (Stud Qty/Stud Dia/Minute)	30pcs/6mm/min	30pcs/8mm/min	30pcs/10mm/min
	35pcs/3mm/min	35pcs/3mm/min	35pcs/4mm/min
Applied Patent	Utility model patent CAPACITOR DISCHARGE STUD WELDING MACHINE		
Input Voltage	Single phase 110VAC~240VAC/50Hz or 60Hz (other voltages available)		
Allowable Input Voltage Fluctuation Range	±10%		
Standard Supply Scope	1. Machine (1pc) 3. Earth clamp with earth lead (1pc) 5. Special power cable (1pc)	2. Stud gun with cable (1pc) 4. Chuck (4sets) 6. Enclosed documents (1set)	
Specification of 1-phase Power Cable (3 wires)	3 wires (1.5mm <sup>2</sup> /pc) 3×1.5mm <sup>2</sup>		
Specification of Control Cable (2 wires)	2 wires (0.5mm <sup>2</sup> /pc) 2×1mm <sup>2</sup>		
Max. Length of Extended Welding Cable	30m		
Max. Length of Extended Earth Lead	10m		
Protection Class	IP23		
Cooling Mode	Air Cooling		
Case Material	Steel + Spray Painting		
Dimension (L×H×W)	430mm×230mm×320mm		
Handle	Yes		
Weight of Machine	18kg	19kg	20kg
Weight of Welding Gun	0.7kg		
Standard Welding Gun	SRQ3/SRQ5		

\*Suit capacitor discharge welding to stud, nail and Y nail etc.

\*Light weight, suit to longtime and continuous working.

\*Matched work with all kinds of capacitor discharge stud welding machine

\*The protective cover ensure the high reliability of control cables.

\*Suitable diameter of stud: M2~10mm



## Welding Performance:

