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CONNUC intermediate frequency inverter welding machine

Overview:

It is advanced welding equipment with core components including inverter, welding controller, middle frequency transformer. It uses module design, uses imported electronic elements and equipped with micro-computer multi function SL-MF110 controller. The controller uses 8-bit microcomputer as heart, together with 2 groups analog/digital conversion circuit, so it can automatically control power voltage change & surrounding temperature change to ensure stable output, so to reach the best welding quality.

The machine has three memorizing function, easy setting and operation, superior quality, very small fault, with reliable long term working.

The machine has small measurement transformer but with big output energy, it can increase the electricity networks' 50/60hz to 1000Hz, maximumly reduced the steel core weight, Also the rectifier diodes in the secondary circuit can switch power to DC for welding machine, so it greatly improved the secondary loop inductance value which lead to energy lossing, so it reduces production cost to minimum.

Characteristics:

1. DC welding current, when secondary windings have inductive/magnetic material it will not affect the welding.
2. Make the power supply device with balance loading, the middle frequency inverter welding machine uses 3 phase power supply but with strong adaptability for power grid voltage fluctuation and voltage step down.
3. More precise & faster current controlling, more numbers & more accurate analysis parameters compared with power frequency system.
4. Faster reaching to setting current, 20 times faster than conventional technology.
5. More reliable process, majority of resistance welding metals will get better welding quality if by DC welding.
6. Cost saving, reduces every spot welding energy and shorts welding period.
7. Energy saving, especially very suitable for welding thick working piece and high conductive metals, such as aluminum & all galvanized steel sheet.

Technical specifications:

| ITEM | MD-10 | MD-20 | MD-25 | MD-32 | MD-40 | MD-60 | |
|-------------------------|---------------------------------|---------------------------|---------------|-----------|-----------|------------|-----------|
| Power | Rated volt | AC 380V, 3 phase, 50/60Hz | | | | | |
| | Switch | 600V,16A | 600V,100A | 600V,200A | 600V,200A | 600V,250A | 600V,400A |
| | Fuse | 16A | 100A | 200A | 200A | 250A | 400A |
| Rated Power (Kva) | 8 | 50 | 70 | 80 | 90 | 150 | |
| Duty Cycle (%) | 50 | | | | | | |
| Inverter frequency | 1000Hz | | | | | | |
| Secondary voltage (V) | 9.8 | 9.8 | 9.8 | 11.6 | 11.6 | 13.6 | |
| Output SC Current (KA) | 10 | 20 | 25 | 32 | 40 | 60 | |
| Electrode Stroke (mm) | 50 | 80 | | | | | |
| Electrode Arm Gap (mm) | 120 | 310 | 300 | | | | |
| Electrode Arm Length | 120 | 460 | | | | | |
| Max Electrode Pressure | 1100 | 4700 | 4700/7300 | | | 12000/1800 | |
| Compressed Air Pressure | 0.6 | | | | | | |
| Pressure | 1.5~3kg·f/cm2 | | | | | | |
| Water flow (L/min) | 6 | 15 | 25 | 30 | 30 | 30 | |
| Water temperature | Incoming Water, lower than 20°C | | | | | | |
| Resistivity | >5KΩ.cm3 | | | | | | |
| Thickness M.S. (mm) | 1.5+1.5 | 3.0+3.0 | 4.5+4.5 | 5.0+5.0 | 5.0+5.0 | 5.0+5.0 | |
| Dimension (LxWxH) | 940x500x129 | 1220x825x168 | 1225x860x1700 | | | | |

Machine photo:

* Above photo for reference only, welding machine differed by different application, we will send design together with quotations when customers send us their enquiry with detailed usages.

* Welcomed customized order.