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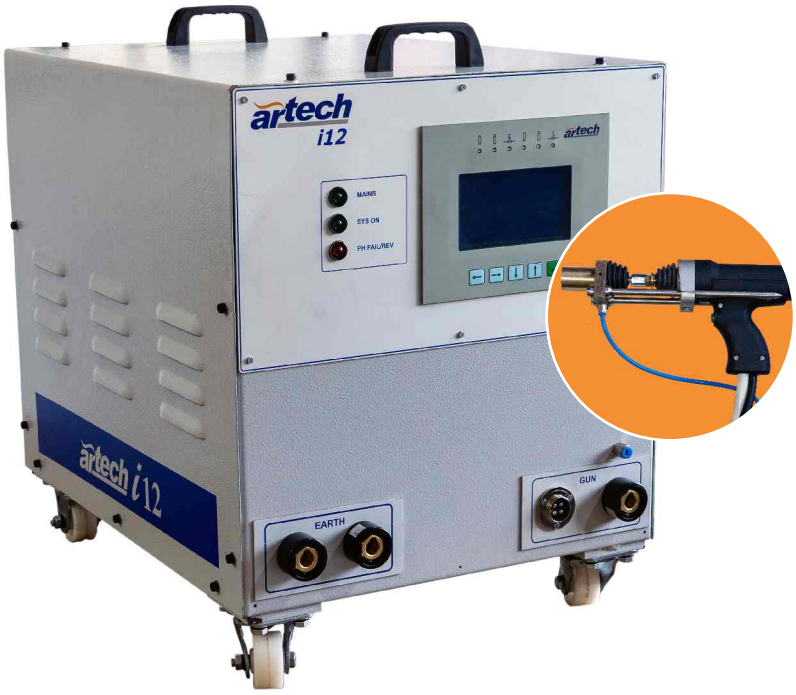
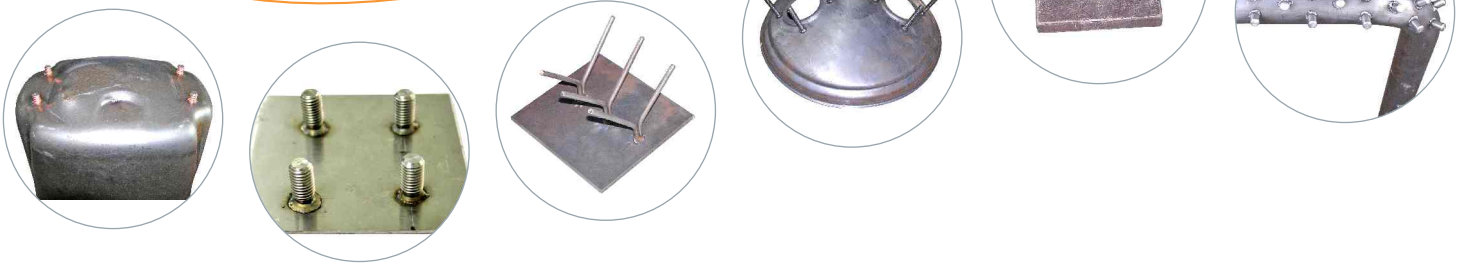
Inverter Drawn Arc Stud Welding Machines

The compact i12 is a lightweight, digital portable Inverter drawn arc stud welder and is capable of welding from M3 up to M12 studs



Features & Advantages

- Light weight
- Weld current and weld time can be set
- Reduction in Input Kva of machine
- Constant current power source ensures consistent weld quality
- Smart digital display provides easy viewing of parametres
- Faster arc response because of Inverter technology makes it more reliable and repeatable
- Excellent performance on coated sheets



Applications

Automobile – Farm Equipment – Insulation in Shipbuilding – Transformer Tank Manufacturing
Boiler Stud Welding – Heat Exchangers – Heavy Fabrications – Refractory Anchor Welding
Earth Moving Equipment – Power Plants

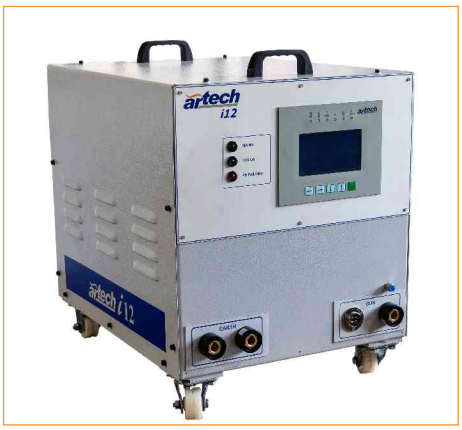
Strong welds. No Secondary operations.

Inverter Drawn arc stud welding is a highly efficient method of attaching fasteners primarily to mild steel and stainless steel by utilizing a constant current DC power supply. The welding process uses a welding inverter which serves as an energy source and provides continuous welding current. The welding time can be adjusted from 10 to 400 milliseconds.

Inverter Drawn Arc Stud Welding quickly joins a base metal to a stud/fastener. The welding is performed via a controlled electric arc process, which melts the end of the fastener to join it to the base metal.

Materials for stud welds and base metals that can be joined with Inverter Drawn Arc Stud Welding include — Steel — Stainless Steel

Technical Specifications



	i12	i16
Stud welding range	M3 to M12	M3 to M16
Welding current	800 Amps Max	1200 Amps Max
Welding time	10 to 400 ms	10 to 600 ms
Power	415v 3 Phase 50Hz	415v 3 Phase 50Hz
Welding Cable	5 Metre	5 Metre
Welding Material	Mild steel, Stainless steel	Mild steel, Stainless steel
Welding Gun	Gap type	Gap type
Display	LCD Graphic	LCD Graphic
Self Diagnosis	Over hear, Input error and Internal fault	Over hear, Input error and Internal fault
Control Logic	Microcontroller based	Microcontroller based

Features — Password Protection — Alpha-numeric text display — Fine adjustment of weld time — Weld counter — Protection against overloading of machine

Drawn Arc Welding Advantages

The Drawn Arc welding provides superior welding quality under a wide range of requirements. The full cross-sectional weld, in drawn arc stud welding, provides stronger bond while creating several benefits in quality, productivity, and cost advantages.

Superior Quality

Better weld strength

Drawn arc stud welding produces welds that are vibration-proof and resistant to breaking, loosening, or weakening.

Versatile weld designs

One-sided fastening in Drawn Arc Welding allows for greater variety in design.

Better Productivity

Easy to weld, faster welding for fasteners

As compared to the fastening operations, arc welding is way more easier due to welding times of less than a second and access required from only one side.

No secondary operations

Arc welding eliminates the need for punching, drilling, tapping and riveting.

Cost Effective operations

Savings in relatively complex fabrication

Odd-shaped fabrication is relatively easy to perform with simple welding of studs, as opposed to other methods, thereby saving costs and time.

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