



Quality, Value, Service

STUD CRAFT (INDIA) PVT. LTD.

ISO/TS/16949 Certified Company

Manufacturers Of Weld Studs And Fasteners
For Various Engineering Applications



STUD CRAFT (INDIA) is engaged in manufacturing of Weld Studs, Fasteners and Other Engineering Components. The relentless efforts for continuous product development, customer satisfaction, quality, service and value, made it possible, not only to reach every corner of the country but also gain a good reputation abroad.

PRODUCT RANGE

- We manufacture variety of Weld Studs - Drawn Arc Type, Capacitor Discharge Type and Short Cycle Type - in wide range of lengths, diameters, shapes and materials, to suit customers' requirements.

STUD WELDING FEATURES

- High productivity - since the process lasts for a fraction of a second.
- High production rates such as five-six studs per minute for manual feeding and twenty studs per minute for auto feeding, are achievable.
- Costly machining operations like drilling, punching, threading, riveting etc. are eliminated.
- Improves design potentials due to less distortion, no leakage, usage of thin plates, one side accessibility etc.
- Strength of the joint is higher than the base material and the stud.

We manufacture Philips Head Screws, Screw Washers, Set Screws etc. & also Precision Turned Components.

THE STUD WELDING PROCESSES...

Capacitor Discharge Stud Welding

1. The capacitors are charged.
2. The CD - Stud in the gun is moved by a spring to the workpiece surface.
3. The tip touches the workpiece and closes the electrical circuit. The rapidly increasing current melts the tip instantly and ignites the arc.
4. Stud and workpiece surface melt.
5. When the stud touches the workpiece, the arc extinguishes, the welding pools merge and solidify.

Drawn Arc Stud Welding

1. The stud is lifted up in the gun by a lifting device and a secondary arc (pilot arc) with low current is ignited.
2. Then the main arc is ignited between the tip of the stud and the workpiece.
3. The surface of the stud and the workpiece melt.
4. After the end of adjusted welding time, the stud is moved to the workpiece; both welding pools merge. The power unit is switched off; the weldpool solidifies and cools down.

Special Processes... Stud welding by Short Cycle - SC . Drawn Arc Short Cycle Stud Welding

- Ideal to fasten insulation pins (e.g. refractory insulation)
- Christmas tree studs (e.g. cable fasteners)

APPLICATIONS

- **Boilers** - to increase the surface area of water tubes.
- **Furnaces** - to support insulation and bricks.
- **Electrical** - in the manufacture of switchgear cubicles, transformers, instrument panels.
- **Railways & Vehicles** - in vacuum brakes, automobile bodies.
- **Structural** - in composite construction, bridges, roof decking.
- **House hold appliances** - in cooking pots, frying pans, water heaters.
- **Medical Equipment** - to provide invisible, sterile connections.
- **Ship Building** - in deck welding, insulation on bulk head, securing pipe hangers, conduits.



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