



Build Right, Weld Right

High Performance
Stud Welding Machine
For M6 to M25 Studs



CDS-2500

Simple, Efficient, Durable

STUD WELDING SYSTEM

DRAWN ARC STUD WELDER

QuickSpecs

- Stud diameter 6mm – 25mm
- Transformer rating 2500 amps
- Special function for through deck welding
- Enormous energy savings of up to 30%
- Precise weld time and weld current adjustments
- Timing control 15-2000 milliseconds, stepless
- Continuously adjustable 100-2500 amps
- A voltage fluctuation of $\pm 20\%$ is allowable
- Enhanced duty cycle for production environments
- Improved user interface for more intuitive setup
- **New** DPS control, user friendly interface
- **New** Improved weld control
- **New** State of the art gun control circuitry
- Auto safety shutdown

And what are the **advantages?**

Saves Time: Seconds per stud weld compared to minutes for traditional arc weld processes.

"No Hole" Fastening: Eliminates the need for drill and tap with a Complete Joint Penetration (CJP) Weld where the full cross section of stud is utilized. Plus, no leaking at the connection point.

Reliability & Repeat-ability: Because of process-monitoring capability, you get same weld every time.

Weld Strength: The weld is stronger than the stud or base metal alone allowing engineers to design around the failure of the stud or base material.

No Certified Welder Needed: The process is easy to train on and can be performed by lowest cost labor.

Return on Investment: The process provides significant labor savings, is fast & efficient that leads to fast payback on your capital investment.

Specifications CDS-2500

Welding range, mm ϕ	6 to 25
Welding rate, studs/min	3-18
Rated input power, KVA	120
Maximum output current, A	2500
Welding current range, A	100-2500, continuously adjustable
Welding method	Drawn arc (ceramic ferrule), short cycle
Main circuit	Full bridge controlled rectifier
Control circuit	Micro-processor controlled
Rated input current, A	162
Rated welding voltage, V	32
Primary power, V	380/415v, 3ph, 50/60Hz
Welding time, sec	0.01-9.99
Length of weldable stud, mm	≤ 400
Efficiency, %	85
Degree of protection, class	IP23
Insulation, class	H
Welding material	Mild steel, stainless steel, aluminium
Cooling	Air cooled
Dimensions (LxWxH), mm	780x355x870
Weight, kg	130

Contents: Power source (1pc), stud gun with cable (1pc), extended gun cable (1pc), earth clamp with earth lead (2pc), chuck and ceramic ring claw (4sets), crescent spanner (1pc)

VARIOUS JOBSITES WITH CDS-2500



Highlighted Features

- The CDS-2500 is a compact and portable stud welding power supply capable of welding studs thru 32mm diameter weld base. The fully regulated power supply which operates on three phase power produces a smooth, stable welding arc. Both the weld time and weld current are innately adjustable for preciseness and repeatability.
- The main power of stud welding machine is designed in compact size and lightweight, can work 24 hours continuously. With design of anti-faulty-operation, it can prevent repeat welding onto the same point.
- High-Duty Cycle - Cruxweld has increased the duty cycle for customers who demand the fastest larger-diameter welder in the market.
- Inverters deliver precision weld control, a high degree of material flexibility, and have the highest power to weight ratio for maximum portability.
- Gun test function / check the action of welding gun before welding.
- Drawn arc welders offer the highest duty cycle, largest stud diameter, and longest cable length.
- Powerful output for even the largest diameter jobs.
- Stepless time and current control allow for infinite settings for fine tuning the welding output.
- It has the function of automatic compensation for power grid voltage fluctuation.
- When you turn on the controller it will automatically self-test to ensure safety and quality.
- It is widely used in steel structure construction, bridge, locomotive, shipbuilding, boiler, industrial furnace and other fields.