

Weld Monitor



NCD+ 3200

Dependable, brawny power topology and precision digital technology

NCD+™ is a dependable, new generation capacitor discharge (CD) stud welding power source developed around the traditional transformer rectifier CD power topology, but controlled by a high-performance 32 bit microprocessor. The NCD+ 3200 has the capacity to weld the full range of CD studs, up to 3/8" (M10) diameter, and the application flexibility to be configured with a manual handgun, an autofeed handgun, or an autofeed weldhead. The features and benefits include:

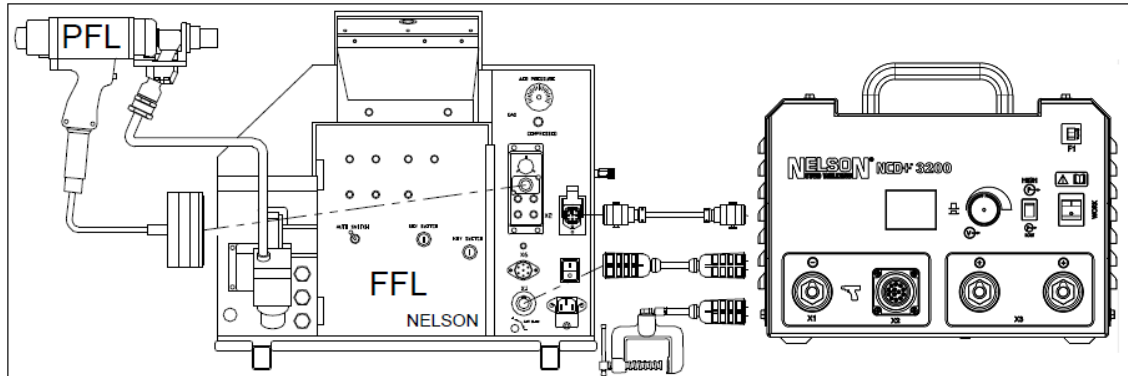
- **Proven Power Topology.** Durable, long-life weld SCR and specially designed capacitors.
- **Built-in Process Monitoring.** Ensures weld quality. Provides full color graph of weld process.
- **Consistency and Reliability.** Weld strength consistently exceeds that of the stud or parent metal.
- **Assembly Quality.** Built in the U.S.A., to the demanding standards of ISO9001.
- **Power Convenience.** Operates on a standard wall outlet power input (120V).
- **Charge Selection.** Allows the operator to configure the capacitor bank to the appropriate stud size.
- **Dissimilar Metals.** Mild steel stud can be welded to stainless, brass or copper.
- **Automation Capabilities.** Integrated into the design to allow the customer to autofeed studs, and connect to robotics. Autofeed systems are available for mass production.
- **Multi-Function Color Display.** Friendly, full color graphical user interface for operation and maintenance details.
- **Stud Expert™.** Weld voltage, spring pressure and gap database for various materials, thread sizes and gun types.
- **Circuit Breaker.** Over current protection without the inconvenience of replacing a fuse.
- **Polarity Change.** Ease of changing between straight and reverse polarity.
- **Stepless Voltage Adjustment.** Precision voltage setting, and adjustment
- **Smart Discharge Circuit.** Ability to reduce the voltage setpoint without welding.
- **Chuck Saver.** Prevents chuck damage by not allowing accidental double trigger after the weld process.

Applications

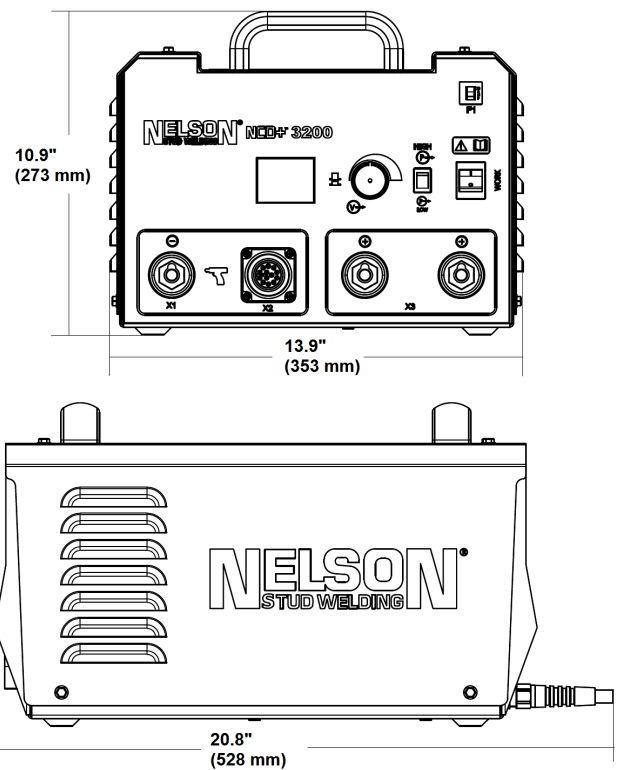
- Thin sheet metal fabrication with minimal heat, distortion, backside marking & weld flash interference.
- Insulation pins in shipbuilding and construction.
- Materials with high thermal conductivity such as copper and aluminum alloys.

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Technical Data



	NCD+ 3200	
	MIN	MAX
Input Voltage (V) / Current (A)	120/20	
Input Line Frequency (Hz)	60	
Cap Voltage (V)	70	200
Stored Energy (Ws)	3780	
Capacitance (µF)	81,000	189,000
Weight	58 lbs (26 kg)	
Dimensions (L x W x H)	20.8" x 13.9" x 10.9" (528 mm x 353 mm x 273 mm)	
Weld Rate (Studs / Minute)	Low, Capacitance, 120V	20
	High, Capacitance, 120V	8
Maximum Stud Thread Diameter	Steel/Stainless (TFTC/S)	3/8" Flanged
	Aluminum (TFTA)	3/8" Flanged
Power Cord	9 ft (2.75 m)	
Input Power Connection*	Standard 120VAC, 3-Prong, Grounded	
Idle Power (W)	80 or less	
Display	Full-Color Graphical, Multi-function	



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