

NELSON[®] STUD WELDING

A Nelson Fastener Systems Company

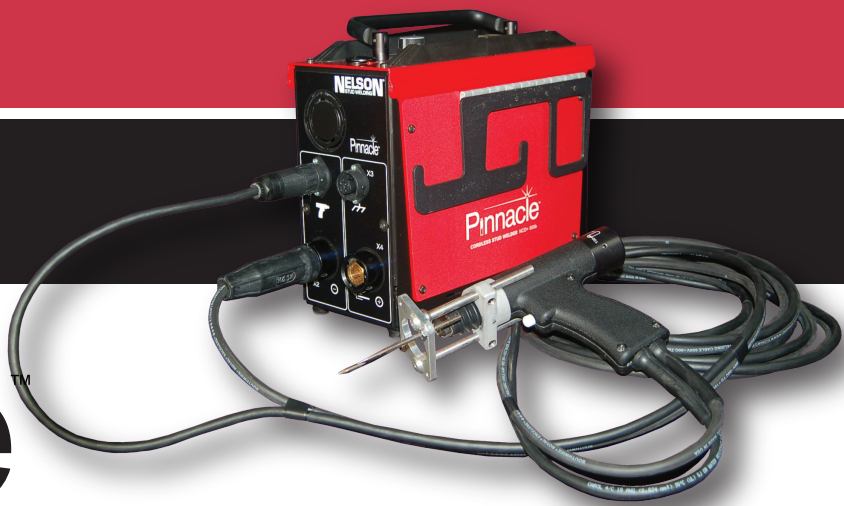
Pinnacle

CORDLESS STUD WELDER NCD+ 500b

and

Pinnacle[™]max

CORDLESS STUD WELDER NCD+ 500b



High performance battery-powered design delivers 1000's of welds from a single charge!

Cordless = Unparalleled Flexibility

Weld nearly anywhere, with no need for a power cord to limit worksite access. No power generator needed at your jobsite either!

Integrated Cable Cleat & Gun Holster

The Pinnacle's 31 feet of welding cable allows for a wide work envelope around the welder. The integrated weld cable cleat & gun holster makes this versatile cable set very easy to manage, both at the jobsite, and in between jobsites.

Advanced Battery Management System (BMS)

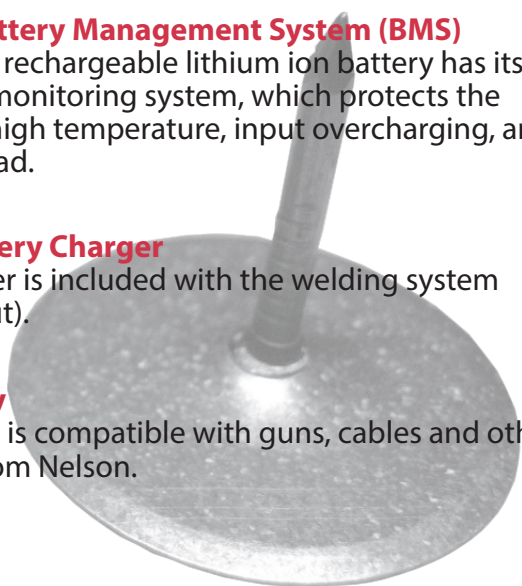
The Pinnacle's rechargeable lithium ion battery has its own internal monitoring system, which protects the battery from high temperature, input overcharging, and output overload.

External Battery Charger

Battery charger is included with the welding system (120V, 6A input).

Compatibility

The Pinnacle[™] is compatible with guns, cables and other accessories from Nelson.



Ultra-Portable

At just 18 lbs., Pinnacle[™] is easy to carry. The padded shoulder strap allows welding while carrying the unit. This welder is also designed for easy use in 2 orientations: tabletop (horizontal) and user-carried (vertical).

Multifunction User Display

The Pinnacle[™] uses the same clear, multi-color display as the rest of the NCD+ family, and includes Nelson's familiar graphical gun display. This tough and versatile display shows settings, as well as helpful messages, to make set-up and troubleshooting very easy.

Advanced Microprocessor Control

The Pinnacle's ARM microprocessor provides control, diagnostic and safety features not found in any other pin welder.

Assembly Quality

Pinnacle[™] is built in the U.S.A., to the demanding standards of ISO9001.

Safer

No comparable CD stud welder can run *continuously* without an input power cord. No cord means less risk of electric shock, arc flash injury, or tripping on the power cord while working in obstacle-filled worksites. A dedicated ground conductor assures that the welder case is grounded to the weld work piece.

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751-614-800

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WELD TOOL

751-650-630
19' #4 weld cable

751-650-640
8' 1/0 weld cable

GROUND CABLE

720-551-000
12' #4

720-551-001
12' 2/0

Specifications

GENERAL

| | |
|---|--|
| Weld Voltage Range, Continuously Adjustable (VDC) | 35-100 |
| Max Stored Weld energy (Ws) | 500 |
| Weld Capacitance (mF) | 100 |
| Weld Rate (studs/min) | Weld Voltage = 70 14 Weld Voltage = 80 12 Weld Voltage = 90 10 Weld Voltage = 100 8 |

STUDS

| | | |
|---|-----------|------|
| Max Weld Stud Diameter - Steel, Stainless | 10 gauge | 1/4" |
| Max Weld Stud Diameter - Aluminum | 12 gauge | #10 |
| Gun Connector Type | 7 pin | |
| Weld Connector Type | Dinse | |
| Operating Temperature Range (Deg C) | 0 to 40 | |
| Storage Temperature Range (Deg C) | -20 to 60 | |

BATTERY

| | |
|--|---|
| Charger Input Voltage (V) / Frequency (Hz) | 115 / 6 / 60 |
| Max Battery Charge Time (Hrs) | 3 |
| Nominal Battery Voltage (VDC) | 48.1 |
| Battery Capacity (Amp Hrs) | 5.2 |
| Welds per Battery Charge | Weld Voltage = 70 2100 Weld Voltage = 80 1600 Weld Voltage = 90 1200 Weld Voltage = 100 1000 |

WEIGHTS AND DIMENSIONS

| | |
|------------------------------------|-------------------|
| Weight: welder only (lbs) | 18 |
| Weight: welder, gun & cables (lbs) | 26 or 35 |
| L x W x H (in) | 13.3 x 6.0 x 11.2 |
| Gun Cable Length (ft) | 19 or 8 |
| Work Cable Length (ft) | 12 |

| Stud Size | Material | Plunge Depth | | Pressure | NCD+500b Voltage |
|-----------------------------|-----------------|--------------|----|----------|------------------|
| | | In. | mm | | |
| 12 Ga. CHP/P2P (point only) | Carbon Steel | 0.16 | 4 | 0 | 80-85 |
| 10 Ga. CHP/P2P (point only) | Carbon Steel | 0.2 | 5 | 0 | 95-100 |
| #6 (M3) | Carbon Steel | 0.12 | 3 | 100 | 70 |
| | Stainless Steel | 0.12 | 3 | 100 | 60 |
| #8 (M4) | Carbon Steel | 0.12 | 3 | 100 | 80 |
| | Stainless Steel | 0.12 | 3 | 100 | 70 |
| #10 (M5) | Carbon Steel | 0.12 | 3 | 50 | 90 |
| | Stainless Steel | 0.12 | 3 | 25 | 80 |
| 1/4" | Carbon Steel | 0.12 | 3 | 100 | 100 |
| | Stainless Steel | 0.12 | 3 | 100 | 95-100 |

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