

NELSON[®] STUD WELDING

A Nelson Fastener Systems Company



Pinnacle[™]
CORDLESS STUD WELDER NCD+ 500b

Nelson's first stud welder powered exclusively by a rechargeable battery. The Pinnacle[™] has the capacity to weld CD studs up to $\frac{3}{16}$ " diameter, including standard tip studs and Cupped Head Pins (CHP) for insulation.

Pinnacle[™] 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!

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).

Peak Capacity

The Pinnacle[™] battery charges fully in just 2 hours, and then delivers thousands of welds on that charge. A single battery charge delivers 2,200 12-gauge pin welds!

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 Microprocessor Control

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

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 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.

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.

Assembly Quality

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



Pinnacle™

CORDLESS STUD WELDER NCD+ 500b

Specifications

GENERAL

Weld Voltage Range, Continuously Adjustable (VDC)	35-100
Max Stored Weld energy (Ws)	500
Weld Capacitance (mF)	100
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

STUDS

Max Weld Stud Diameter - Steel, Stainless	10 gauge
Max Weld Stud Diameter - Aluminum	12 gauge
Weld Rate (studs/min)	Weld Voltage = 70 14
	Weld Voltage = 80 12
	Weld Voltage = 90 10
	Weld Voltage = 100 8

BATTERY

Charger Input Voltage (V) / Frequency (Hz)	100-240 / 50 or 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 2140
	Weld Voltage = 80 1620
	Weld Voltage = 90 1260
	Weld Voltage = 100 1010

WEIGHTS AND DIMENSIONS

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