

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)

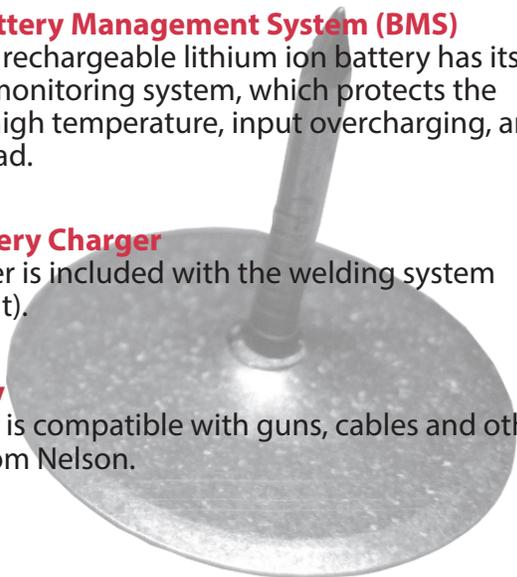
The Pinnacle's rechargeable lithium ion battery has its own internal monitoring system, which protects the battery from high temperature, input overcharging, and output overload.

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

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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
	Stainless 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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