

PulsePoint™ Plus 130

Laser Welding Machine

The Neutec Advantage

The Neutec PulsePoint™ Plus 130 heavy-duty laser welding machine is designed for those who never want to compromise power and need to be able to depend on precision work for their finer, more intricate pieces. With a maximum output energy of 130 joules (75 watts average output power), the Plus 130 delivers the power and control you need to complete every task, day in and day out.

- A spot diameter of 0.3–2.0mm allows for extra-fine detail work such as filigree and around set stones.
- Pulse duration is 0.5–25mS for extra versatility in weld depth—ideal for repairs and model-making.
- High-efficiency optics enable a higher-duty cycle output (75W avg. output power) from fewer joules.
- High optic refractive index concentrates more energy on the target piece.
- Advanced constant-voltage inverter power supply eliminates power spikes to deliver more effective welding and drastically extend the flashlamp life.
- Superior, high-efficiency components run cooler, reducing stress on critical-wear parts, for notably longer service life and greatly reduced maintenance.
- The stabilized light path stays true, needing no adjustment.
- The PulsePoint™ Plus 130 ensures tight, repeatable control over laser parameters to deliver precise results.
- Designed as the benchmark for low operating cost.
- New back-lighted graphic display allows you to easily monitor and adjust all working parameters.
- Users can now set up to 99 programmable memory cells for consistent results under a variety of conditions.

Advanced Ergonomics

The advanced ergonomics built into the PulsePoint™ Plus 130 laser welder minimize physical stress to the operator and maximize the effective use of floor space. The Plus 130 model allows you to adjust the height of the welding chamber from 44" to 48" to accommodate the specific height of the user.



710-007

PulsePoint™ Plus 130 Specifications:

Laser crystal:	Nd:YAG
Wavelength:	1064nm
Input power:	230VAC (±10%), 50/60Hz, 10 amps, single-phase
Output pulse energy:	0.25–130 joules
Maximum power:	5.2kW
Average power:	75W
Pulse frequency:	0.5–20Hz
Pulse duration:	0.5–25mS
Spot diameter:	0.3–2.0mm @ 120mm focal length
Parameter memory files:	99 (max. available files)
Dimensions:	20"W x 34"D x 44-48"H
Shipping Weight :	120kg (265 lbs.)
Machine Weight:	95kg (210 lbs.)

PulsePoint™ Plus accessories



All fine-gauge laser-weight wire and solder (except for stainless steel) are coiled onto a special spool that prevents tangling and allows you to precisely control where the wire is applied while you laser-weld.



A



B



C



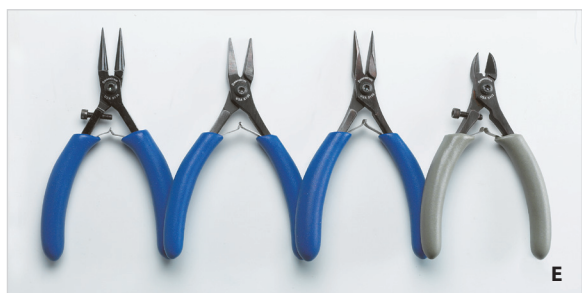
Speedwire dispensers allow you to accurately control wire feed while laser welding.

Speedwire dispenser stand holds up to eight Speedwire dispensers.



D

Tape tips to protect delicate work against marring.



E



A. Laser-Weight Wire Round, dead soft. Laser-weight wire is the ideal companion to all your laser-welding tasks and offers perfect matching of repairs and seams.

34-gauge; 1-dwt. spool	Qty/spool	Order #
.950 platinum	11.6 ft.	699-334
18K white	16 ft.	604-034
yellow	16 ft.	604-134
14K white	19 ft.	601-134
yellow	19 ft.	600-134
10K white	22 ft.	602-234
yellow	22 ft.	602-134

30-gauge; 1/2-oz. spool	Qty/spool	Order #
Sterling/platinum	87.5 ft.	699-501

30-gauge; 1-oz. (troy) spool	Qty/spool	Order #
Argentium® Sterling	220 ft.	103-330

30-gauge; 1/2-oz. (avdp.) spool	Qty/spool	Order #
Titanium, grade 1	200 ft.	699-500

32-gauge; 8-oz. (avdp.) spool	Qty/spool	Order #
Stainless steel	2913 ft.	503-070

B. Laser-Weight Solder Round, extra-hard. Contains 80% silver. Sold on special spools that protect the wire and allow precise, convenient handling as well as precise positioning of the wire.

30-gauge; 1-oz. (troy) spool	Qty/spool	Order #
Silver solder	190 ft.	101-730

C. Speedwire Dispensers Ideal for laser-welding applications, these innovative 4 1/2"-long open-style wire dispensers come pre-loaded with ten feet of annealed wire (non-refillable). Guide the wire without taking your eyes off the work. You save time and improve the accuracy of your welds. Each dispenser is color-coded and clearly labeled to make it easy to select exactly the wire you want.

30-gauge	Order #
14K yellow	710-670
palladium white	710-672
18K yellow	710-674
palladium white	710-676

28-gauge	Order #
Sterling Solder	710-678

Dispenser stand	Order #
1 1/2"H x 3" diameter	710-680

D. Short-Nose, Cross-Lock Tweezers Hold workpieces, components, findings or laser-weight wire precisely and securely while you weld them with this short-nose, fine-point stainless-steel tweezer. The design of the extra-short tweezer nose makes it ideal for maneuvering work within the focal point of the laser. Resin fiber riveted handle provides a sure grip. Tip length: 3/8" (10mm); overall length: 4" (102mm).

Order # **115-070**

E. Swanstrom Plier Set Forged and machine-hardened high-carbon, high-chrome alloy steel micro-sized tools feature an anti-glare finish, adjustable Scriver™ joint and Soft-Touch™ sure-grip ergonomic handles. Includes round-nose, chain-nose and flat-nose pliers and one super-flush cutter.

Order # **111-729**