



Service

Built by Neutec/USA® at our facility in Albuquerque, New Mexico, with quality components and materials, the PulsePoint™ delivers the long-lasting service and reliability that is the trademark of Neutec equipment. The Neutec/USA PulsePoint™ is equally at home in a large manufacturing facility or a one-bench repair shop, working to help you expand your business while reducing costs for both labor and material. Hotline technical service and support is available 24 hours a day, seven days a week, 365 days a year.

Training

For a reasonable fee, training is available with your PulsePoint™ laser welder. On site at your facility, Neutec/USA®-certified technicians will train your operator in the basic use and daily maintenance of the PulsePoint. Or, you may choose to send your technician here to our facility for two days of hands-on training in long-term maintenance and consumable replacement procedures.

PulsePoint™ specifications:

Laser crystal:	Nd:YAG
Wavelength:	1064nm
Input power:	230VAC (±10%), 50/60Hz, 10 amps, single-phase
Output pulse energy:	0.25–75 joules
Maximum power:	5.0kW
Average power:	65W
Pulse frequency:	0.5–10Hz
Pulse duration:	0.5–15.0 milliseconds
Spot diameter:	0.3–2.0mm @ 200mm focal length
Memory parameter:	1–99
Dimensions:	20"W x 36½"D x 47"H

PulsePoint™ system:

- PulsePoint™ laser welder
- Standard stereo-microscope (optional zoom available)
- Optional alpha pod projection microscope available
- Complete start-up kit

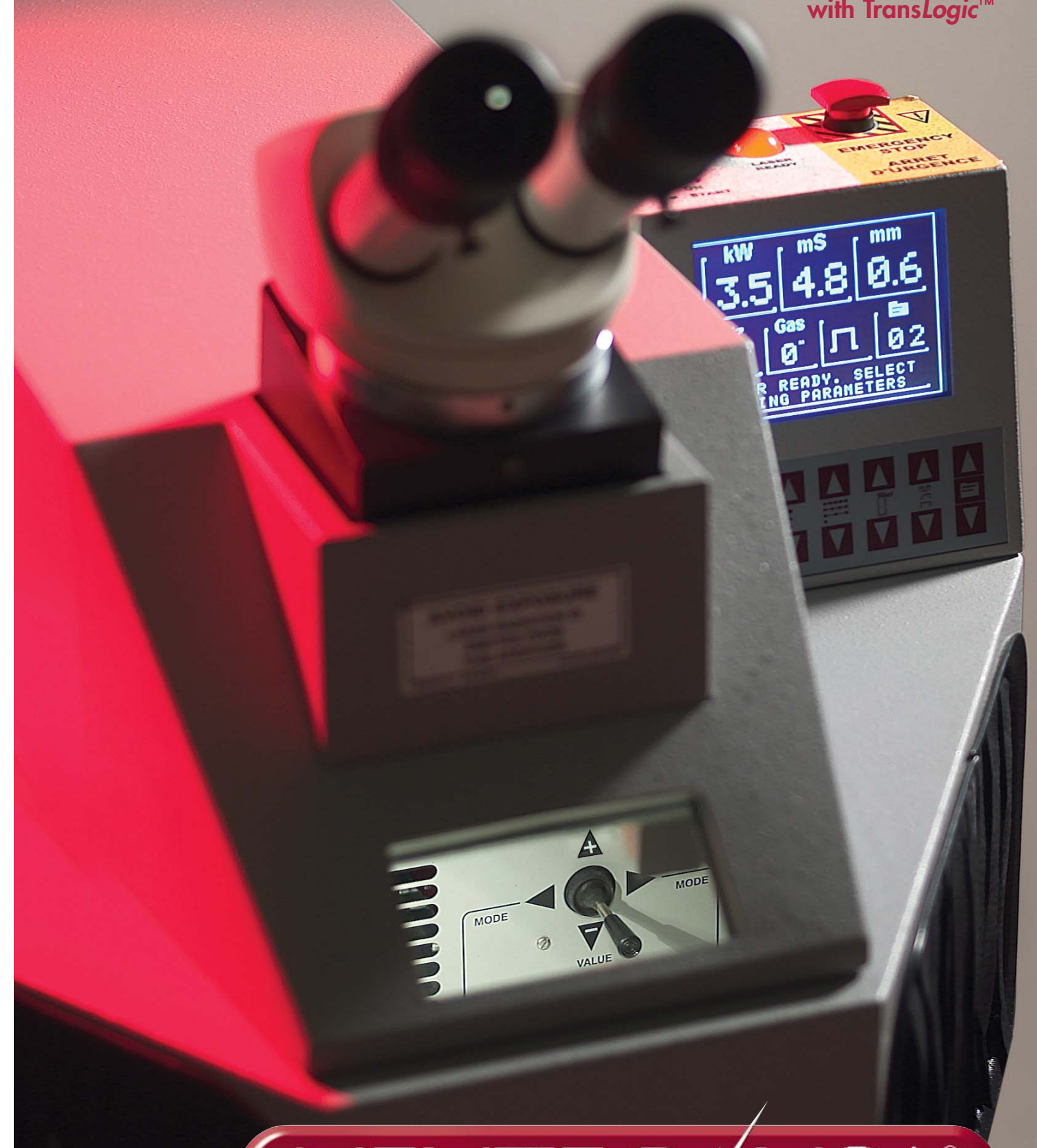
“You can feel the hit, and that power is clearly visible in the results—even on silver. If you can weld silver well, everything else is easy.”

— Eddie Bell
President, Neutec/USA®



PulsePoint™ Laser Welder

with TransLogic™



NEUTEC USA®

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Correct surface porosity with wire filler.



Weld seams and joints.



Assemble components more quickly.



Repair your most delicate pieces.

The TransLogic™ Advantage

Before plans for the PulsePoint™ got near the drawing board, Neutec engineers took a long, hard look at existing laser welders. Eddie Bell, president of Neutec/USA®, summarizes their conclusion: “It seemed everyone was getting into a horsepower war—adding more and more joules. Our engineering staff focused its attention instead on efficiency, on making every joule work harder.”

- TransLogic™-enhanced optics enable a higher-duty cycle output (average power) with fewer joules. For example: most 100- to 120-joule machines without TransLogic produce 35–50 watts of average power; the 75-joule PulsePoint™ with TransLogic delivers 65 watts of average power.
- TransLogic™ transfers energy from source to target with far less loss.
- Super-high TransLogic™ refractive index optics deliver more energy to the target piece.
- With TransLogic™ higher-efficiency components, the machine runs cooler with less stress so that critical-wear parts deliver a significantly longer service life and less maintenance.
- With excess energy reduced through TransLogic™ efficiency, flash lamps can deliver up to twice as many pulses as those in systems with lower efficiency.
- The stabilized light path created by TransLogic™ requires no adjustment.
- TransLogic™ ensures tight, repeatable control over lens parameters.

Advanced Ergonomics

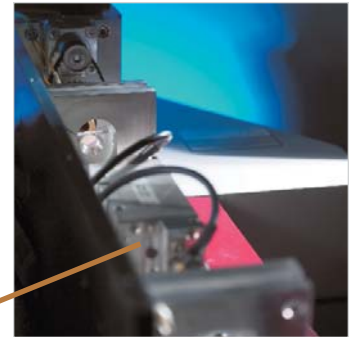
The advanced ergonomics built into the PulsePoint™ laser welder minimizes physical stress to the operator and maximizes effective use of floor space.

Use the PulsePoint™ to:

- Repair heirlooms, stone-set jewelry, timepieces and fragile or intricate components—even eyeglasses.
- Repair metal defects, such as porosity, in cast pieces.
- Eliminate the need for torches and soldering—especially for production runs.
- Create seamless welds—even multiple welds—with no off-color solder joints.
- Ensure a safe, toxic-free work environment.

“It’s not about how many joules you have, it’s about how much energy gets to your workpiece.”

— Eddie Bell
President, Neutec/USA®



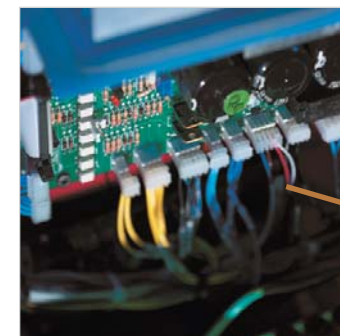
Laser rail machined from heavy-gauge aluminum for precision alignment stability. Extremely stable light path does not need adjustment.



Extra-wide access ports increase maneuverability and allow larger items into the weld chamber for repair.



Set the display for your choice from among five languages.



Signature Neutec/USA® quality components and cutting-edge technology minimize energy loss so that fewer joules in actually deliver more power.



Intuitive, easy-to-use external and internal controls.



Stay-Put™ foot control resists ‘walk-away’, saving time and effort.



Heavy-duty power supply and internal cooling system keeps this machine working all day, every day.