



## Nelweld® N1500i™

*Third generation inverter technology propels stud welding into the 21<sup>st</sup> century*

This new, dependable, and light-weight stud welder is not light in power. From the inventor and trusted leader of stud welding, N1500i is a third generation inverter that Nelson has to offer to the world hungry for such a little giant. This all-digital system has 50% more output power than comparable products in the market. This means it can weld larger studs, weld more studs per minute and drive more cable (up to 100-600 feet\*). The friendly user interface with 10 presets, graphic gun and welder status, and bright alpha-numeric displays reduces set-up time, and operator training and error. It sports:

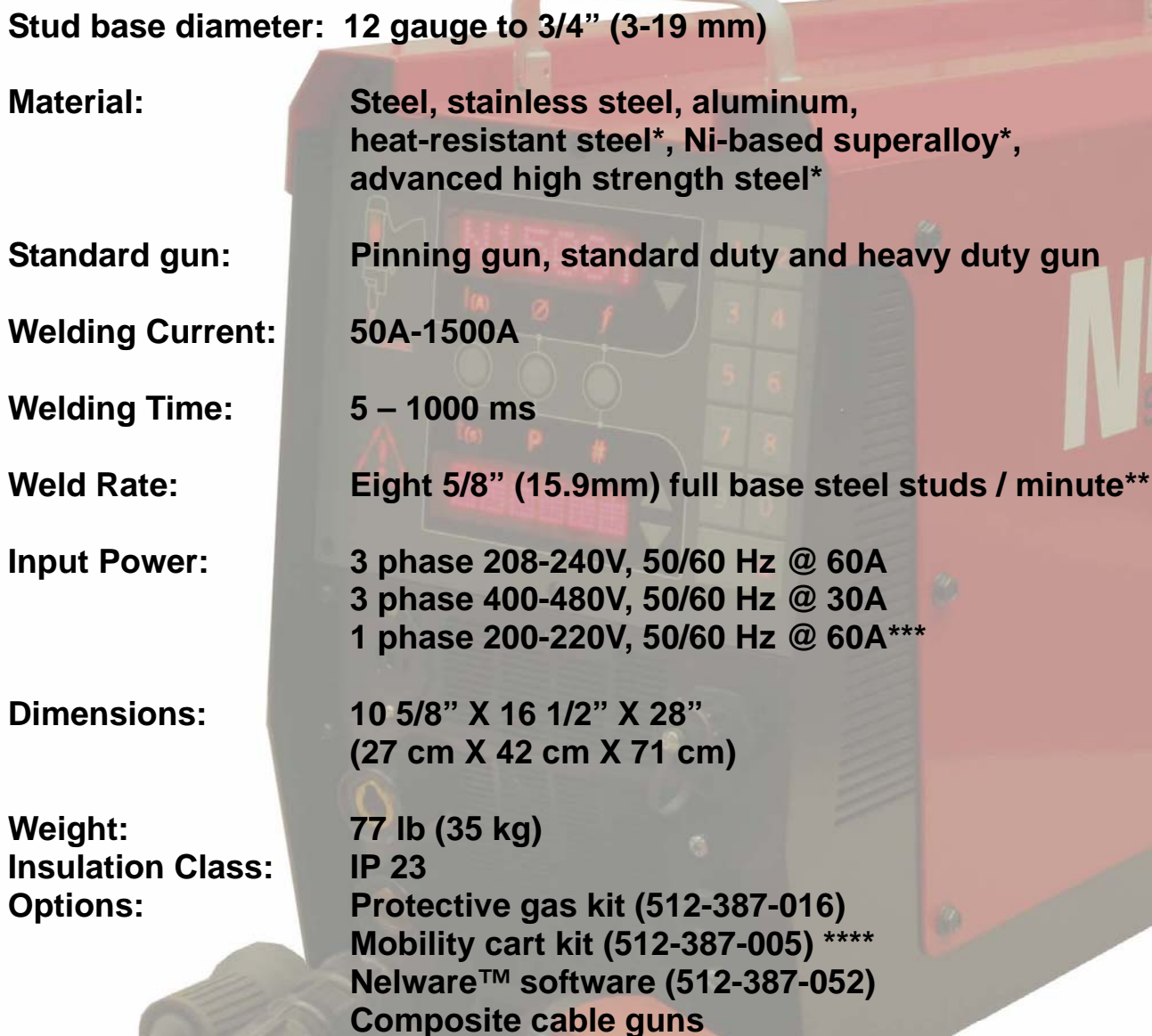
- **Parallel Silicon™** IGBT arc power
- **DSP Plus™** brain power
- **Dual Loop™** fast reaction arc dynamics
- **Turbo Planar™** high efficiency transformer
- **Stud Expert™** database programming of welding parameters based on application conditions
- **Touch Safe™** operator protection
- **Nonstick Lift™** adaptive pilot arc ignition
- **Synchro Plunge™** choreographed current decay and stud advance
- **Nelware™** self diagnostics, production monitor and embedded weld quality monitor software

Precision control at 60,000 Hz frequency ensures the most stable arc, accurate heat input and highest quality process. Consistent welds are produced, inconsistent plate surface, weld position, gun and cable conditions notwithstanding. Combining control, gas and power in one composite cable provides robustness, reliability and increased up-time in production.

### Applications

- Shipbuilding, industrial, automotive repair and production
- Insulation pins, threaded studs, refractory anchors, pins
- Auto-feed hand gun applications, such as wide top, fir tree, threaded studs and trim studs

## Technical Data



A red and grey Nelson Stud Welder N1500i is shown in the background. It has a control panel with a digital display and buttons. A welding torch is attached to the front. The model number 'N1500i' is printed vertically on the left side of the machine.

<b>Stud base diameter:</b>	<b>12 gauge to 3/4" (3-19 mm)</b>
<b>Material:</b>	<b>Steel, stainless steel, aluminum, heat-resistant steel*, Ni-based superalloy*, advanced high strength steel*</b>
<b>Standard gun:</b>	<b>Pinning gun, standard duty and heavy duty gun</b>
<b>Welding Current:</b>	<b>50A-1500A</b>
<b>Welding Time:</b>	<b>5 – 1000 ms</b>
<b>Weld Rate:</b>	<b>Eight 5/8" (15.9mm) full base steel studs / minute**</b>
<b>Input Power:</b>	<b>3 phase 208-240V, 50/60 Hz @ 60A 3 phase 400-480V, 50/60 Hz @ 30A 1 phase 200-220V, 50/60 Hz @ 60A***</b>
<b>Dimensions:</b>	<b>10 5/8" X 16 1/2" X 28" (27 cm X 42 cm X 71 cm)</b>
<b>Weight:</b>	<b>77 lb (35 kg)</b>
<b>Insulation Class:</b>	<b>IP 23</b>
<b>Options:</b>	<b>Protective gas kit (512-387-016) Mobility cart kit (512-387-005) **** Nelware™ software (512-387-052) Composite cable guns</b>

## Welding Processes

- Drawn Arc
- Gas Arc
- Short-Cycle
- Super-Short-Cycle™ \*\*\*\*\*

\* Contact Nelson for maximum stud diameter and suitability for use with your specific material.

\*\* Using 1200 A, 670 ms settings and 3 phase input supply.

\*\*\* Output is limited to 800A in single phase.

\*\*\*\* Inquire factory for delivery.

\*\*\*\*\* Developed for advanced high strength steels.

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