



**N1500i FACS**  
Flexible Arc Control System  
Inverter 3/4" Drawn Arc Stud Welder

The N1500i is Nelson's first drawn arc stud welder enhanced by the FACS evolution to simplify stud welding everywhere

**Dot Matrix Screen**

The new FACS equipped N1500i uses the familiar Dot Matrix interface the customers have used for years. The standard functions and display icons haven't changed so the operator can hit the ground running.

**Portable Inverter**

Weighing about 78 pounds, this machine is easy to move around. The high frequency inverter design balances an auto compensating control system with a lightweight heft.

**Automation Capabilities**

The auto-feed capabilities can support both hand held auto feed, and robotic mounted welding guns for high speed applications. The fasteners typically range from 3/16" (5mm) diameter to 3/8" (10mm) diameter.

**Stud Expert**

The new FACS-equipped N1500i includes the Stud Expert™ feature that helps the operator easily set-up a welding application. This wizard makes set-up as simple as determining the diameter and material to be welded.

**Process Monitoring**

The N1500i welder includes quality monitoring features that allow the operators to evaluate each weld to ensure optimal repeatability.

**Pulse Welding**

The N1500i welder allows the user to design custom waveforms to optimize the welding process. The pulses created by the user make welding Aluminum and other exotic materials possible by vaporizing oxides and contaminants on the base material surface.

**Global Design**

The new FACS-equipped N1500i was designed to comply with world wide standards, and connect to any 3 phase industrial input power.

**Plug & Play Motorized Gun Options**

The new motorized gun driver module developed for the FACS system can simply replace the standard solenoid gun driver and connector.

**Advanced Microprocessors & Communications**

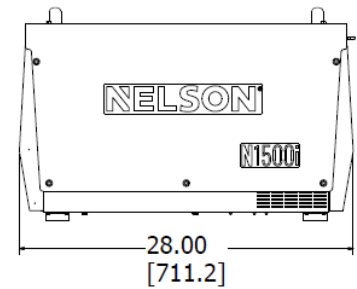
FACS uses cutting –edge microprocessor controls and will expand connectivity in the future for weld data.



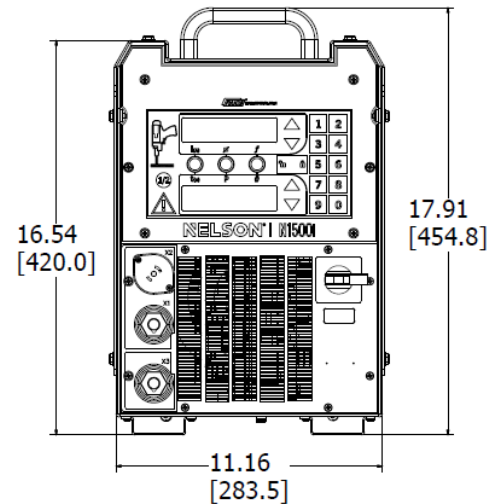
# N1500i FACS

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Welder Specifications		N1500i	
Welding Process		Drawn Arc, Short Cycle, Gas Arc	
Welding Current (I)		100A—1500A Continuously Adjustable	
Welding Time (T)		5ms—1000ms Continuously Adjustable	
Weight (welder only)		78lbs (36kg)	
Dimensions (L x W x H)		28" (72cm) x 11.4" (30cm) x 16.5" (42cm)	
Enclosure Rating		IP23S	
Guns		NS40 and NS20	
Materials		Mild Steel, Stainless Steel, Aluminum, Alloys, and High Strength Steel	
Weld Rates	3/4" (19mm)	4	Studs/Min
	5/8" (16mm)	8	Studs/Min
	1/2" (13mm)	14	Studs/Min
	3/8" (10mm)	28	Studs/Min
Max Stud $\phi$	Steel/SS	3/4"	
	Aluminum	1/2"	
Input Power		3 Phase 200-240V 50/60 Hz @ 60A	
		3 Phase 380-575V 50/60 Hz @ 30A	
		1 Phase 200-240V 50/60 Hz @ 60A (limited to output current 800A)	
Display		Dot Matrix	



VIEWS NOT TO SCALE



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