



# Typhoon 500

GTAW-P/SMAW

## Specifications

<b>Process:</b>	AC/DC GTAW-P/ SMAW with 5 AC wave forms	<b>Input:</b>	240V/1/3ph Opt.480V 3ph	<b>TIG Range:</b>	DC TIG: 5-400/500A AC TIG: 10-500A	<b>I1Max 240V 1ph:</b>	63A 24A	<b>I1Eff 240V 1ph:</b>	50A 19A
<b>TIG Duty Cycle:</b>	240V 1 ph: 60% @ 400A/26V 480V 3 ph: 60% @ 500A/30V	<b>OCV:</b>	TIG: 95V Stick: 95V	<b>Stick Range:</b>	AC/DC Stick: 20A-315/400A	<b>TIG Pulse Frequency DC:</b>	.1-999 Hz	<b>TIG Torch Type:</b>	NOVA 26 Rigid Air-Cooled CK 18HD Water Cooled (12.5 ft each in length)
<b>Stick Duty Cycle:</b>	240V 1 ph: 60% @ 315A/32.6V 480V 1 ph: 60% @ 400A/36V	<b>Weight:</b>	242 lbs. With Cart Cooler	<b>Base Unit Dim.:</b>	31"L x 28.3"H x 11.1"W	<b>AC TIG Frequency:</b>	20-400Hz	<b>AC TIG Balance:</b>	5-70% + (positive)
				<b>AC Wave Forms:</b>	Adv.Sq, Sq, Tri, Sine, Trap	<b>Independent Amplitude:</b>	Yes	<b>Split Wave Form:</b>	Yes

## Built for Welders by Welders

### PowerCart 300 Included

The whole design of the welder lends itself ideally to heavy duty professional fab and production shops. The cart is included as a standard feature, for professionals who want turn key service and a thoughtful design ready -to-go.

### 5.1" LCD HD Color Screen

The 5.1" HD (720) TFT is one of the largest in the industry. Its clear, high contrast display is among the biggest and best in the industry.

### 60% Duty Cycle and Fan Control

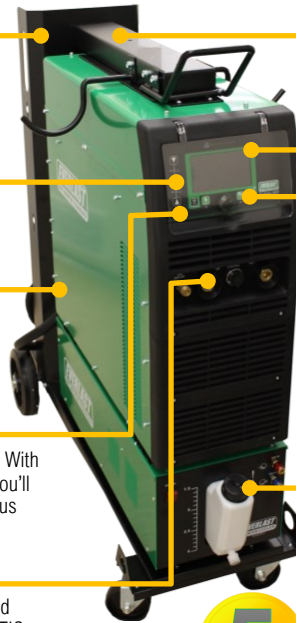
When it comes to duty cycle Everlast does not believe in playing a numbers game. The unit simply maintains a 60% duty cycle at maximum output at 104°F/40°C. The unit also features a fan control system which allows you to select between On-Arc/Demand, temperature controlled and full time.

### Memory Function

The unit is able to save an ample number of programs easily. With the capability to save and store up to 30 different programs, You'll be able to have a specialized program for nearly every job. Plus you can lock it so that it can't be tampered with.

### Easy Change of Polarity and Gas

This unit makes changing from TIG to Stick and back again an easy task via the use of 35mm<sup>2</sup> DINSE Type Connectors. The TIG torch can be quickly uncoupled using the common quick disconnect 9mm fittings that are being used by several manufacturers.



### Water-Cooler Receptacle in Rear

Take a peek around back and you'll see that the unit features and integrated receptacle. The Plug from the cooler is designed plug right. The new F.A.C.C.T. system (Fan and Cooler Control) allows you to choose between full time running or on arc control.

### Easy Selection of Different Processes

There's no need to wade through any hidden menus to change processes. Simply press the button at the top to highlight the process you want, and it instantly ready to go. This makes setup so much quicker and less fumble prone.

### PowerSet Mode

As a synergic type function, you just need to know the basics about your weld parameters such as Tungsten size, metal type and thickness and the machine will give you a very workable setting, eliminating the need to look at complicated charts or apps. The Powerset function is activated simply by selecting this button. Again, no hidden menus or complicated procedure to get to the function. It's right on the front and easy to find.

### PowerCool 400 Cooler Included

The PowerCool 400 is a heavy duty water cooler capable of cooling anything the welder can throw at it. The beltless design, sealed motor and stainless steel vane type pump are designed for long life and cooling efficiency.

### 5 Year Parts and Labor Warranty

Simply the best warranty in the business. Who else offers this without paying extra, or giving you a long list of exclusions? This also includes free warranty shipping during the first 3 years of ownership and second owner warranty transfer!

## Uses: Industrial Welding and Fabrication, HVAC, Aerospace, and Marine

*For serious users only.*

### Pulls no punches.

The Typhoon 500 knocks out work quickly and with ease with up to 400A in 240V 1p hase mode or up to 500A in 480V 3 phase mode. Without a doubt it is the most powerful member of the all new generation of TIG welders from Everlast. Don't let the attractive price fool you. This unit is clearly for serious users only.

The Typhoon 500 has a long list of next-level features. These features goes far beyond most all other TIG welders on the market. As the top tier line of TIG welders in Everlast's lineup, the Typhoon series has features that lead its class and establish a new standard for AC/DC TIG welders in the industry. For starters, the welder is coupled to an easy-to-use interface, coupled to the industry's largest Color LCD HD screen coming in at 5.1". The simple idea behind the unit's design is for the operator to have the ability to see and set all the parameters without having to access endless hidden menus or perform complicated series of button presses to access and control the parameters.

Look beyond the simplicity of design, and you will find a long list of well thought out features that include items like three adjustable wave forms on DC pulse, five AC wave forms (yes, five), independent amplitude and even the ability to split AC wave forms during one cycle.

We have given the unit the ability to set AC amplitude (positive amperage vs negative amperage) independently, for ultimate arc control and tungsten life. While welding

aluminum you can also set the machine to split each half of the ac cycle into one of the 5 separate wave forms, and set the AC frequency up to 400Hz. The give the operator complete control over the functions with features never before offered. The real difference comes through in AC advanced pulse though with a mixture of both AC and DC negative that allows you to achieve the penetration of a machine with 450A or more. The AC advanced pulse function combines the best aspects AC and DC to deliver a much more powerful punch than standard AC can. Of course with a standard DC pulse frequency up to 999.9 Hz and the standard AC pulse frequency up to 400 Hz, you'll have maximum control on thin materials as well.

The unit has five very finely tuned wave forms in AC that are far more stable than many of its competitors. While the Typhoon has all the standard wave forms including Advanced Square, Soft Square, Triangular and Sine wave, it also has the industry's first Trapezoid wave form This gives a whole new feel and level control while welding Aluminum. When used in the split wave form mode as one half of the wave form, the resulting control and effect become mind blowing.

If you seeking a welder that doubles as a stick welder, the unit puts out one of the smoothest DC arcs you will find, which is perfectly suited for E7018 and similar rods. The arc is stable and spatter free. If you are needing E6010, it has excellent performance for open root welding. The unit also features an adjustable balance and frequency AC Stick function, for cases when arc blow becomes an issue.

## Up Close

### Large 5.1" 720HD TFT ColorDisplay

One of the largest and brightest in the industry. The design eliminates hidden menus and sub screens that make operating confusing and frustrating for the user.

### Main Operating Features

- AC and DC TIG up to 400/500A
- AC and DC Stick up to 315/400A
- E6010 Stick capable
- AC Stick frequency and balance control
- Stick Hot Start and VRD functions.
- Low amp Starts. 5A DC and 10A AC
- Tungsten size selection for best starting
- AC Balance 5-70%
- AC frequency 20-400Hz
- Independent AC Amplitude control
- 5 Wave forms: Square, Soft Square, Triangle, Sine and Trapezoid
- Ability to set the half AC Wave Forms
- New, adjustable HF start design w/ Lift/Live Lift Start
- AC Pulse up to 400Hz. DC Pulse up to 999 Hz.
- DC Pulse Wave Form shaping. Square, Triangle, Sine
- AC Advance Pulse extends AC welding penetration
- Spot and Stitch (Recycle) operation AC and DC
- Fast Tack feature for cold welding applications
- 2T/4T Switch (for remote operation).
- Pre-Flow / Post-Flow Control
- Start Amps/End Amps
- Up and Down Slope



### Machine Status Indicators

The screen always reminds you of the operating status of the machine to help reduce confusion. It even tells you operating voltage input of the machine (120V or 240V).

### Easy I.D. of the function selected

The unit displays the function or value selected in multiple ways so you can understand exactly what you are setting. It displays up at the top, on the weld cycle graph and below.

### Two-Tier Selection Menu

The two tiered status indicator helps further reduce the need for complicated hidden or expanded menus. The navigation button simply helps you to select the tier you wish to adjust.

### PowerSet Function

PowerSet is a synergic function that is designed to assist users in making accurate setup of parameters without extensive setup procedures or specific machine knowledge.

### Gas Purge

Easily set the gas flow rate by pressing this button. This will open the gas solenoid without having to press the torch switch or foot pedal. This helps to safely reduce false arc starts that can lead to accidental arc flashes and electrical shocks common while setting up units..

### Programmable/Lockable Memory

Save multiple programs. Includes lock function to prevent tampering.

## Welding Thickness Limits\*:

\*Welding thickness limits are typically described in single pass and multi-pass terms. Multiple pass welds on thicknesses 1/4" and over are typically prescribed as "best practice" welds, whereas a single pass weld, may not yield the best or strongest weld but is used to give a comparative idea of the machines capability. Advanced AC pulse can be used to increase penetration greater than the specifications below by up to 75%

**Maximum Single Pass DC TIG Weld:** 5/8"+ (400A)/ 3/4"+ (500A)

**Maximum Multi-Pass DC TIG Weld:** 1"+

**Maximum Single Pass AC TIG Weld:** 5/8"+ / 3/4"+ (500A)

**Maximum Multi-Pass AC TIG Weld:** 1"+

**Minimum Weld Thickness All Voltages:** DC: .008", AC: .015"

**Stick Weld Maximum Electrode Diameter:** 1/4" (Depending upon mfg. and type/class)

## Standard Equipment and Options

### Standard Equipment:

- 12.5 ft (4m) 26 Series Air-Cooled Rigid neck (Straight Head) TIG Torch
- 12.5 ft (4m) CK Series Water-cooled torch
- 500A Work Clamp and 10 ft (3m) Cable
- 400A Stick Electrode Holder 10 ft (3m) Cable
- Brass Billet Floating Ball Type Argon Regulator
- 6.5 ft. Power Cord (No plug)
- Starter Consumable Kit (No Tungsten)
- PowerCool 400 Water Cooler
- PowerCart 300 Welding Cart

### Optional Equipment:

- NOVA Wireless foot Pedal
- 25 ft NOVA RotaFlex Torches (various sizes)



## Will this unit operate on a generator?

Due to the size of this welder and the amp input requirement, the unit will typically not be able to be used with commonly found portable generators. In most cases it will require a stationary or commercial sized diesel generator. The required wattage for this welder is 16kw. There are a few generators on the market that are portable enough to be moved around and to the work site, but these still are much bigger than a typical generator normally considered easily portable. The unit must also have a clean a clean power rating by its manufacturer. This means the unit must have 5% or less Total Harmonic Distortion (THD). Use with a generator that does not have a clean power rating from its manufacturer will void the warranty.

**Notice:** Though a power cable is included, this unit comes without a plug for the cable. This is standard for welders that operates on 240V 1 phase and 480V 3 phase power input, since there is no standard or single plug that can accommodate both inputs due to the differences in the number of conductors and wiring configurations used. The standard plug the customer will need to supply on 240V 1 phase input is the NEMA 6-50P. The red wire will not be used on the welder for 240V 1 phase operation. It should only be used for 480V 3 phase use. See wiring directions in the manual.

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