

Lightning MTS 275



Multi-Process Series MIG/AC-DC TIG/Stick Series

More Power For The Pros.



- ▶ The most advanced MIG/ AC-DC TIG/ Stick on the market.
- ▶ More welding power than anyone else at 275A for MIG and TIG
- ▶ 4 AC wave forms for perfect Aluminum Welding capability
- ▶ Water-Cooler Ready with optional stackable cooler available.
- ▶ Power Set function can be used to synergically set all functions with ease.
- ▶ E6010 Stick welding capability.
- ▶ Unmatched AC and DC Pulse TIG capability
- ▶ New Advanced Pulse feature for welding thick aluminum.



Still the Power and Feature Leader in the Industry.

After years of being the leader in innovation in the MIG/TIG/Stick multi-process market, we have once again pushed the product envelope by creating the most powerful compact MIG/ AC-DC TIG/ Stick welder on the market. The new Lightning series strikes hard with 275 Amps of MIG and TIG welding power along with 200 Amps of stick welding power.

This machine doesn't pull any punches either. In fact it really outperforms in so many areas, it is almost in a class all by itself. With four TIG wave forms to choose from for AC, there's not much aluminum this machine can't handle, thick or thin. In fact, it has as much or more AC wave forms than any other stand alone TIG welder on the market to give just the right performance when and where it is needed. And for other TIG welding features, this is the only machine in to feature both AC and DC pulse in TIG mode. And it also has an additional pulse mode, called the Advanced AC Pulse, which can increase the capacity of the machine by 40 to 50% while welding aluminum. Full 2T and 4T controls also make this machine perfect for remote operation or operation with a foot pedal.

Of course, the MIG features of this machine are among the best of any stand alone MIG machine made in its class. And when you compare to other MIG/TIG/ Stick offerings, it stands out even more with full control of run-in allows smooth stable arc starts. Inductance, pre flow, post flow, crater fill, spot and stitch timers also features that you won't find on most of the machines in this class as well. With up to 275A of welding power, this machine is an excellent candidate for Axial Spray. Add an optional spool gun, or buy a polymer liner and the U groove drive rolls, this machine will smoothly feed large aluminum rolls of wire without even a push-pull gun.

And when it comes to Stick welding capability, it has all the standard features you are looking for, even a setting for E6010. Arc force, Hot Start, are standard features on this machine.

The new synergic Power Set feature also allows new users, and professionals in a hurry to easily setup the machines without a lot of adjustment or guesswork. This feature can be used in all modes. While it gives you recommended settings, it also allows you to fine tune those settings to accommodate differences in weld position, metal temperature, and even operator preference.

Specifications

Process: MIG, AC-DC Pulse TIG, Stick
11Max(Inrush): 120V, 42.8A / 240V, 53A
Wire Diameter: .023"-.045"
OCV: 74V
TIG Pulse Frequency (AC and DC): 5-150Hz
MIG Output 120/240V: 30-150 / 275A, 15.5V-21.5 / 27.8V
Fan: Full-Time 4 Fan Design

MIG Duty Cycle @ Max Output: 35%
11EFF (Rated): 120V, 26A / 240V, 35A
Recommended Stick Electrode Diameter: 1/16"-5/32"
Stick VRD Voltage (activated): <24V
TIG Pulse Time On: 5-95%
TIG Output 120/240V: DC (AC) 10(15)-150/275A, 10.4-16/21V
Ingress Protection: IP21S

TIG Duty Cycle @ Max Output: 35%
Wire Speed 120/240V: 60-400/600 IPM
TIG Torch Type: Water-Cooled 18 Series 12.5ft
TIG AC Wave Form: Adv. Square, Soft Square, Triangular
TIG Pulse Amps: 3-95% of Peak
Stick Range: 10-120/200A, 20.4-24.8/28V
Weight: 84 lbs.

Stick Duty Cycle @ Max Output: 60%
Wire Spool Diameter: 8" and 12" diameter
MIG Torch Type: 36 Series w/ Euro Connector
TIG AC Frequency/AC Balance: 20-200Hz /30-70%
Memory: Save up to 15 programs
Class: Industrial, Commercial, Farm, Fabrication
Dimensions: 27"Hx11"Wx29"L (30" H w/ Handle)

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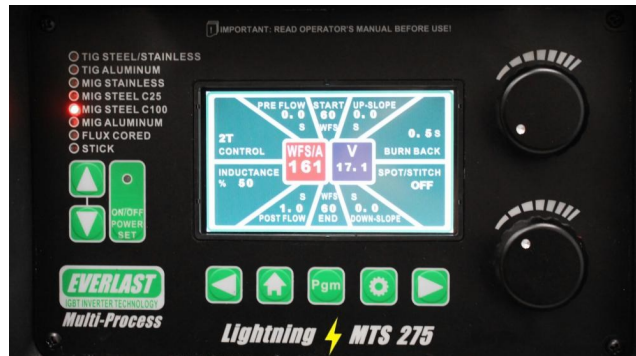
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All specifications, accessories and options are subject to change without notice.

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Panel Configuration and Details



1. Select the metal type, gas and welding mode being used with one button.
2. Power Set Mode for all processes. This is a synergic based function that makes quick work of setup and accurately sets amperage for you without complicated charts or downloading an app.
3. Intuitive Pinwheel menu allows easy viewing, selection and adjustment of all parameters.
4. Easy to understand key pad is intuitive in function and allows rapid selection.
5. Save function allows the user to save up to 15 programs.
6. Large adjustment knobs offer easy to grab control over parameters, even with gloved hands.
7. Large 4.3 inch TFT digital display is bright and easy to read.
8. MIG Spot and Stitch timers are perfect for Auto Body.
9. PowerSet mode in stick allows the customer to weld E6010.
10. AC DC Pulse TIG function for excellent heat control capabilities.
11. Advance AC Pulse actually increases penetration while welding Aluminum.
12. Last Setting recall of parameters when operating in manual mode.
13. MIG Burn Back Control reduces need for trimming wire every time before start.

Adjustable Parameters:

1. Pre-Flow, Post Flow. Controls Shielding gas flow before and after the weld. (0-10S)
2. TIG Start Amps, End Amps. (MIG run in/Crater fill) Controls starting amps and ending amps of weld in TIG mode. For MIG, this feature controls wire feed starting speed for smoother starts and crater fill speed. (Min to Max setting of selected process)
3. Up-Slope, Down-Slope. With TIG, slope is controlled with the torch switch. Down-Slope allows the arc to taper and provides time for the crater to fill before the arc terminates. 0-10 Seconds) With MIG, this controls the initial run-in of wire speed after the arc starts. (0-1 Seconds).
4. Amps. Amps are set for TIG and Stick. Represents Base-Amps in Pulse TIG mode and Welding Amps in standard TIG mode. Represents wire feed rate in Inches per Minute in standard MIG mode. In synergic MIG mode, this indicates actual Amps since wire diameter and type are known. DC TIG: 10-275A, AC TIG: 15-275A, MIG: 30-275A Stick 10-200A
5. MIG Volts. Controls MIG voltage only. Voltage is automatically controlled in TIG and Stick due to the CC Process.
6. MIG Inductance adjusts the crispness of the arc. (0-100%)
7. MIG Burn Back. Controls melt-back of wire after arc termination. Improves restarts and prevents wire waste. (0-2 Seconds)
8. Pulse Amps. Adjusts the Amps in the Peak stage of the Pulse to control melting/penetrating stage of the arc. (10/15-275A)
9. TIG Pulse Time On. Controls the Balance of the time between Peak and Base stages of the Pulse cycle. Adjust the cooling/melting time during one Pulse cycle. (5-95%)
10. TIG Pulse Frequency. Controls number of pulses per second to constrict arc cone and control arc direction and heat input. Also used to improve bead appearance.

Standard Equipment and Options

Standard Kit:

- NOVA TIG Foot Pedal
- 36 Series, 250A MIG Torch
- Ar, Ar/CO2 regulator
- 18 Series, 350A Water-Cooled TIG torch
- 9 ft. Cable with 250 A Stick Electrode Holder
- 9 ft. Cable with 200 A Work Clamp
- 240V to 120V Pigtail Adapter

Customer Favorite Options:

- Air-Cooled NOVA 17 Rota-Flex Torch , 25 ft. Ultraflex cables #RF-17-250-35QD
- Everlast 17/26/18 Stubby Gas Lens Kit #E-WP17-26-18-SKT
- PowerCool 400 Water Cooler (stacks under welder) #PCW-400-240
- PowerCart 300 #PC-300-M
- Parker DSP 360 Spool Gun EV-PK360-DSP-25

Everlast proudly offers optional accessories and products from NOVA Welding Industries.



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