Precision TIG 275/375
TIG WELDING MACHINE
The Best of Both Worlds: Utility and range of thickness

The Precision TIG® 275 is a versatile shop machine ideal for any type of TIG or Stick welding maintenance application, including the use of 5/32-in. (4.0 mm) stick electrode. The 275 features the patented Micro-Start™ II technology, which enhances starting and arc stability, and provides for more precise welds and crater fills.

When it’s time for thicker materials and heavier jobs, choose the Precision TIG® 375 which provides for the highest duty cycle in its class. The Precision TIG 375 also features the patented Micro-Start II technology, and a built-in TIG pulser, that can be activated to help control heat input in the weld and reduce distortion and burn-through on thin materials.

Great Starting Stable, Focused Arc Precise Crater Fill
Simplicity, Control and Range

Simplicity through technology
AC Auto Balance® automatically provides for the optimal mix of cleaning and penetration for welding on Aluminum. When welding thicker material requiring increased penetration, or when requiring increased cleaning action to break through heavy oxide layers, bypass AC Auto Balance and adjust manually for full control.

Advanced Pulse Control panel
Enable the TIG pulser to minimize material distortion from excessive heat input. The TIG pulser can also help moderate filler metal deposition for consistent bead appearance. (Optional on the Precision TIG 275, standard on the Precision TIG 375).

Wide output range
Tackle either end of the material thickness spectrum with an amperage range of 2 to 340 amps with the Precision TIG 275, and 2 to 420 amps with the Precision TIG 375.

Side-mounted torch holder and connections
Enables simple cable management and protection, and a place for your torch when not in use.

Neat/organized cable management with integrated torch holster.
Precision TIG 275 Controls

1. Minimum Output Control & Display Switch
   (Also displays output voltage)
2. Set-Up Menu
3. Digital Meter
4. Local/Remote Current Control Switch
5. Maximum Output Control
6. Post Flow Time
7. Thermal Shutdown Light
8. Optional Advanced Control Panel
   a) Trigger Switch (2-step/4-step)
   b) Pulse/Spot Time Mode Switch
   c) Pulse Frequency Control
   d) Pulse % On Time Control
   e) Pulse Background Current Control
   f) Downslope Time, In Seconds
   g) Spot Time
9. Polarity Switch
10. Power Switch
11. AC Balance Control
12. Mode Switch
1. Minimum Output Control & Display Switch
   (Also displays output voltage)
2. Set-Up Menu
3. Digital Meter
4. Local/Remote Current Control Switch
5. Maximum Output Control
6. Post Flow Time
7. Thermal Shutdown Light
8. Downslope Time
9. Pulse Background Current Control
10. Pulse % On Time Control
11. Spot Time
12. Pulse Frequency Control
13. Polarity Switch
14. Power Switch
15. Pulse/Spot Time Mode Switch
16. Trigger Switch [2-Step/4-Step]
17. AC Balance Control
18. Mode Switch
19. Remote Receptacle (not shown)
### WHAT'S INCLUDED

- **Under-Cooler Cart Water Cooler**
- **Foot Amptrol™ with 25 ft. (7.6 m) cable assembly.**
- **Harris® Gas Regulator/Flowmeter and 10 ft. (3.0 m) Hose Kit**
- **PTW-20 250 amp water cooled TIG torch w/ 25 ft. (7.6 m) cable**
- **Zippered Torch Cover with 25 ft. (7.6 m) zippered torch cover**
- **Water Hose (2 included)**
- **15 ft. (4.5 m), 2/0 Work Cable and Clamp**
- **Adapter for optional PTA-9 or -17 Torch (3/8 in.)**

### PRODUCT SPECIFICATIONS

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Product Number</th>
<th>Input Power</th>
<th>Rated Output Current/Duty Cycle (104°F, 40°C)</th>
<th>Input Current @ Rated Output</th>
<th>Output Range</th>
<th>H x W x D inches (mm)</th>
<th>Net Weight lbs. (kg)</th>
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<td>K2619-1</td>
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<td>275A/40% 225A/60%</td>
<td>104/94/47A 40% Duty Cycle 86/78/39 60% Duty Cycle</td>
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*Included*
## OPTIONAL ACCESSORIES

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<tr>
<th>General</th>
<th>Precision TIG 275 (208/230/460)</th>
<th>Precision TIG 275 (460/575)</th>
<th>Precision TIG 375 (208/230/460)</th>
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<td>Undercarriage</td>
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## STICK

- Accessory Kit - 150 Amp: includes 20 ft. (6.1 m) of #6 electrode cable with lug, 15 ft. (4.6 m) #6 work cable with lugs, head shield, filler plate, work clamp, electrode holder and sample pack of mild steel electrode

  - K875

- Accessory Kit - 400 Amp: includes 35 ft. (10.7 m) of 2/0 electrode cable with lug, 30 ft. (9.1 m) 2/0 work cable with lugs, head shield, filler plate, work clamp and electrode holder

  - K704

- Remote Output Control - 25 ft (7.6 m) | K857

- Remote Output Control - 100 ft (30.5 m) | K857-1

## TIG

- Hand Amptrol™ (Rotary Track Style) w/ 25 ft. (7.6 m) cable assembly

  - K963-3

- Foot Amptrol with 25 ft. (7.6 m) cable assembly

  - K870

- Wireless Pedal

  - K4217-1

- Arc Start Switch with 25 ft. (7.6 m) cable assembly

  - K814

- PTA-9 -17 One Cable Torch Adapter: adapts the 3/8 in. PTA-9 or -17 fitting to the 5/8 in. gas and power connection on machine

  - K2166-3

- PTA-9 -17 -26 Two Cable Torch Adapter: Converts the 7/8 in. water and power connection on the machine to a 1/2 in. output stud for use with a two-cable air cooled TIG torch.

  - K2166-2

- PTA-26 One Cable Torch Adapter: adapts the 7/8 in. PTA-26 fitting to the 5/8 in. gas and power connection on machine.

  - K2166-1

- Harris® Gas Regulator/Flowmeter and 10 ft. (3.0 m) Hose Kit

  - 3100211

- Under-Cooler Cart water cooler

  - K1828-1

- 25 ft. (7.6 m) zippered cable cover

  - K918-2

- 12.5 ft. (3.8 m) zippered cable cover

  - K918-1

* Included

• Optional
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Subject to Change – This information is accurate to the best of our knowledge at the time of printing. Please refer to www.lincolnelectric.com for any updated information.

OPTIONAL ACCESSORIES

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