

Precision TIG™ 375

The Power To Perform!

The Precision TIG 375 delivers the Power to Perform – setting a new standard in Square Wave Technology. Combining outstanding value-added features and patent-pending Micro-Start™ Technology, the Precision TIG has the widest range of welding current in its class featuring up to 25 more amps of power at 40% duty cycle and a superior low-end. This machine comes standard with full featured sequencing and pulsing controls and power factor correction. Available in both machine-only models or a convenient Ready-To-Weld Package, the Precision TIG 375 is ready to meet all of your welding needs.



Processes

Stick TIG

Advantage Lincoln

- Patent pending Micro-Start™ technology for state-of-the-art low amperage starting: 2 amps DC, 5 amps AC.
- Smooth, controllable focused arc for precision TIG welding performance.
- Neat/organized cable management with integrated torch holster.
- Water-cooled torch connections with no adapters – side mounted to keep out of the way and protected.
- Built-in storage compartment with removable tray for torch consumables.
- Ready-To-Weld package available with under-cooler cart water cooler and storage drawer for helmet, gloves, foot pedal, and work cable/clamp.
- Built-in holders for filler rod tubes.
- Built-in Advanced Pulsing Controls integrates TIG pulsing, downslope, arc force and trigger controls into the machine.
- Standard power factor correction capacitors save on electricity cost when welding at higher currents.
- Adjustable high frequency intensity control.

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Description



Recommended Options

Undercarriage, Work Clamp & Cable Assembly

Recommended Stick Options

Stick Accessory Kit, Remote Output Control

Recommended TIG Options

Pro-Torch TIG Torches, Pro-Torch Cable Adapters, Under-Cooler Cart Water Cooler, Water Solenoid Kit, Harris Argon Flowmeter Regulator, Foot Amptrol, Start Pedal Foot Amptrol, Hand Amptrol, Arc Start Switch

Ready-To-Weld Package Includes

Precision TIG 375, Under-Cooler Cart Water Cooler, Foot Amptrol, Gas Regulator/Flowmeter & Hose Kit, PTW-20 Pro-Torch TIG Torch, Zippered Torch Cover, Parts Kit, Two Water Hoses, Work Cable & Clamp

Order



- K1833-1 Precision TIG™ 375 208/230/460/1/60
- K1833-2 Precision TIG™ 375 230/460/575/1/60
- K1834-1 Precision TIG™ 375 220-230/380-400/415/1/50/60
- K1903-1 Precision TIG™ 375 208/230/460/1/60 (Ready-To-Weld Pkg.)

Technical Specifications

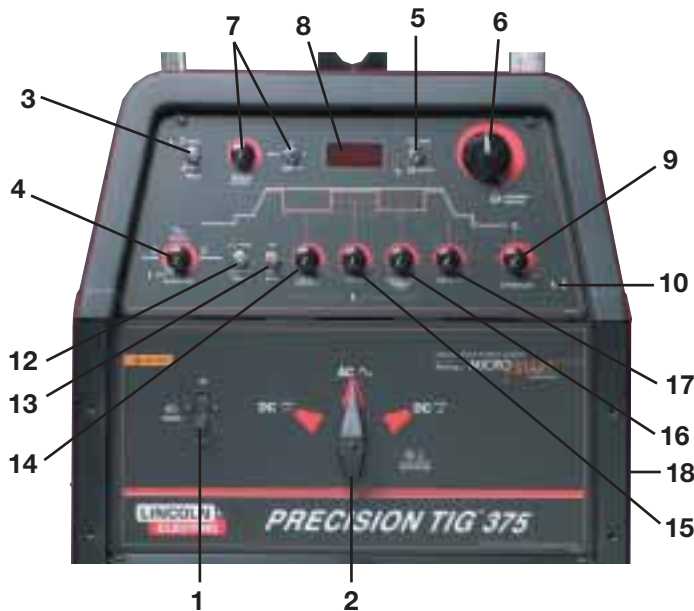
Product Name	Product Number	Input Power	Rated Output Current/Voltage/Duty Cycle	Input Current @ Rated Output	Output Range	Dimensions H x W x D in. (mm)	Net Weight lbs. (kg)
Precision TIG 375	K1833-1	208/230/460/1/60	375A/35V/40%	112/102/51A with PFC	DC: 2-420A AC: 5-420A Max. OCV: 80V	31 x 22 x 26 (787 x 559 x 660)	507 (230)
	K1833-2	230/460/575/1/60	375A/35V/40%	102/51/41A with PFC			
	K1834-1	220-230/380-400/415/1/50/60	375A/35V/40%	119/69/63 with PFC			
Precision TIG 375 Ready-To-Weld Package	K1903-1	208/230/460/1/60	375A/35V/40%	112/102/51A with PFC	DC: 2-420A AC: 5-420A Max. OCV: 80V	49.7 x 28 x 41 (1262 x 711 x 1041)	751 (341)



Advantage Lincoln con't.

- CNC/Robotic capable.
- Simple, easy to use controls.
- Energy-efficient design.
- Recommended for welding with E6010 and E7018 electrodes.
- Reliable under-cooler cart water cooler featuring industry recognized ProCon® pump tucked neat and tidy underneath machine for compact set-up.
- Separate output studs for work cable/clamp and electrode cable/holder allows you to quickly change between stick and TIG welding processes with no high frequency on stick studs.
- Easily accessible reconnect panel for convenient installation.
- Removable access door for easy spark gap maintenance.
- Reliable polarity switch with positive locating detents.
- Minimum output control allows user to preset minimum amperage. Aids starting when using large tungstens. Also allows operator to control foot pedal resolution between minimum and maximum amperage.
- Fan-as-Needed™ (F.A.N.) minimizes thermal cycling of internal machine components, minimizes internal contamination when not welding, and saves on electricity costs.
- Automatically switched 115V auxiliary power receptacle runs water cooler only as needed. 50/60 Hz model also includes 230V auxiliary power receptacle.
- CSA NRTL/C approved.
- 3 year warranty on parts and labor.

A Closer Look



- 1) Power Switch
- 2) Polarity Switch
- 3) Mode Switch
- 4) AC Balance Control
- 5) Local/Remote Current Control Switch
- 6) Maximum Output Preset Control
- 7) Minimum Output Preset Control & Display Switch (Also displays output voltage)
- 8) Digital Meter
- 9) Post Flow Time
- 10) Thermal Shutdown Light
- 11) Remote Receptacle (not shown)
- 12) Trigger Switch
- 13) Pulse Mode Switch
- 14) Pulse Frequency Control
- 15) Pulse % On Time Control
- 16) Pulse Background Current Control
- 17) Downslope Time
- 18) High Frequency Intensity Control (recessed on side panel)

Ready-To-Weld Package

One Product Number (K1903-1) Gets You All This:

- Precision TIG 375 (208/230/460/1/60)
- Under-Cooler Cart Water Cooler
- Foot Amptrol
- Gas Regulator/Flowmeter & Hose Kit
- PTW-20 Pro-Torch™ TIG Torch (250 amp, 25ft.)
- Zippered Torch Cover
- Parts Kit
- Water Hose (2 included)
- 15 ft., 2/0 Work cable & clamp



Recommended Options

Undercarriage

Includes a dual bottle rack with chain and front casters, rear wheels and a handle.
Order K1869-1.



Work Clamp & Cable Assembly

15 ft. 2/0 cable with 1/2" stud lug and work clamp.
Order K2150-1.



Stick Accessory Kit

Complete kit for stick welding. Includes 30 ft. (9.1m) electrode cable, 25 ft. (7.6m) work cable, headshield, work clamp and electrode holder.
Order K875 for 200 amps.
Order K704 for 400 amps.



Remote Output Control

Consists of a control box with choice of two cable lengths. Permits remote adjustment of output. 6 pin connection.
Order K857 for 25 ft. (7.6m) or K857-1 for 100 ft. (30.5m).

Magnum™ Pro-Torch™ TIG Torches

A full line of air-cooled and water-cooled torches available.
Request publication E12.50.



PTA-26 One-Cable Adapter

Adapts the 7/8" PTA-26 fitting to the 5/8" gas and power connection on machine.
Order K2166-1.

PTA-9, -17 One-Cable Adapter

Adapts the 3/8" PTA-8 or -17 to the 5/8" gas and power connection on machine.
Order K2166-3.

PTA-9, -17, -26 Two-Cable Adapter

Converts the 7/8" water and power connection on the Precision TIG to a 1/2" output stud for use with a two-cable air-cooled TIG torch.
Order K2166-2.



Under-Cooler Cart Water Cooler

Includes "cooler-in-a-drawer" with hoses and a lockable storage drawer on a dual bottle undercarriage.
Order K1828-1.



Water Solenoid Kit

Enables use of tap or shop water for an economical water-cooled system. Not recommended for use in conjunction with a water cooler.
Order K1830-1.



Harris Argon Flowmeter Regulator

Deluxe flowmeter/regulator. Includes 10 ft. hose.
Order 3100211.



Foot Amptrol™

Varies current for making critical TIG welds. Depress pedal to increase current. Depressing pedal fully achieves maximum set current. Fully raising the pedal finishes the weld and starts the afterflow cycle. Includes 25 ft. control cable.
Order K870.



Start Pedal Foot Amptrol™

Patent-pending design features an independent start pedal on control pedal providing two-stage foot action to easily feel start switch closure at minimum output level for enhanced arc

start and crater-fill control. Provided with adjustable, or removable, heel stop and 25 ft. plug cable.
Order K870-1.



Hand Amptrol

May be used in place of the Foot Amptrol. Fastens to the torch for convenient slide thumb control. Comes with a 25 ft. (7.6m) cable. Fully extend the slide forward to achieve maximum set current. Retract the slide to reduce the current. Returning to the start position finishes the weld and starts the afterflow cycle.
Order K963-1 (For smaller handle 9, 17 or 20 series torches).
Order K963-2 (For larger handle 26 or 18 series torches).



Arc Start Switch

Needed if an Amptrol is not used when TIG welding. Comes with a 25 ft. (7.6m) cable. Attaches to the TIG torch for convenient finger control.
Order K814.

