

Invertec® V160-T

For TIG and Stick Welding

The Invertec® V160-T is a full function DC TIG inverter intended for alloy fabrication or critical maintenance work. Its built-in gas handling capability and choice of High Frequency or Touch-Start™ TIG starting make it ideal for a wide variety of tough TIG applications. The V160-T can also weld stick with a variety of popular Lincoln stick electrodes. Its portable, rugged design and auto-sensing 115/230V 50/60Hz operation make it ideal for both shop or field use.



Processes

Stick TIG Pulsed

Advantage Lincoln

- Advanced inverter technology delivers superior TIG performance.
- Selectable Touch-Start™ TIG starting or high frequency starting makes it easy to establish an arc under a variety of conditions.
- Built-in pulsing functions give you greater control over thin materials.
- Add TIG capability to your arsenal by using remote power from an engine driven generator.
- Auto-reconnect between 115/230V 50/60Hz input power eliminates operator error.
- Integral gas and power connector for simple torch connections and quick changes between TIG and stick welding.
- Lightweight, rugged package make it easy to take TIG welding capability where it's needed.
- Thermal and voltage overload protection for long life of internal components.
- Three year warranty on parts and labor.

Description

Output   Input  

Base Unit Includes

- 115V Input cord (10 ft.) and plug (NEMA 5-15P)
- 20 Amp Plug (NEMA 5-20P)
- Twist-Mate™ Torch Adapter for PTA-9 or -17 one-piece torch
- Fully adjustable shoulder strap
- Work clamp and cable

Recommended General Options

Welding Cart

Recommended Stick Options

Stick Electrode Holder Cable Assembly

Recommended TIG Options

NEW! TIG-Mate™ 17 Air-Cooled TIG Torch Starter Pack, TIG-Mate™ 20 Water-Cooled TIG Torch Starter Pack, Pro-Torch™ TIG Torch, Foot Amptrol, Hand Amptrol, Arc Start Switch, Cool Arc 40 Water Cooler, Cut Length Consumables

Order

K1845-1 Invertec® V160-T 115/230/1/50/60

TECHNICAL SPECIFICATIONS

Product Name	Product Number	Input Power	Rated Output Current/Voltage/Duty Cycle	Input Current @ Rated Output ⁽¹⁾	Output Range	Dimensions H x W x D inches (mm)	Net Weight lbs.(kg)
Invertec V160-T	K1845-1	115V/1/50/60 20A Branch Circuit	90A/13.6V/100% TIG 60A/22.4V/100% Stick	20A	5-160 Amps DC Max OCV: 48V	13 x 8 x 17 (330 x 203 x 432)	24 (10.8)
		115V/1/50/60 30A Branch Circuit	110A/14.4V/100% TIG 80A/23.2V/100% Stick	25A			
		230V/1/50/60 30A Branch Circuit	130A/15.2V/100% TIG 130A/25.2V/100% Stick	25A			

⁽¹⁾ Input amps on 60Hz input.

- 1) Stick/Touch-Start TIG/HF Start TIG
- 2) 2-Step/4-Step Trigger Interlock
- 3) Dual Range Pulsing
- 4) Adjustable Pulse Frequency
- 5) Adjustable Pulse Background Current
- 6) Adjustable Down Slope
- 7) Adjustable Post Flow
- 8) Output Control
- 9) Digital Meter (Preset/Actual)
- 10) MS-Type remote connector
- 11) Twist-Mate Torch/Gas & Work connections



Stick Welding

Not only is the Invertec V160-T great for TIG welding, it is also capable of stick welding with such popular electrodes as Fleetweld® 35, Fleetweld® 37, Fleetweld® 180 and Excalibur™ 7018.



Pulsing capabilities can be used to control heat input on thin materials.

GENERAL OPTIONS

Welding Cart

Full-featured cart is designed to store and transport a welder, 80 cubic foot gas cylinder, welding cables and accessories. Includes an angled top shelf for easy access to welder controls, a lower tray for added storage space, a sturdy handle and a convenient cable wrap hanger.

Order K2275-1



STICK OPTIONS

Stick Electrode Holder Cable Assembly

Includes 200A stick electrode holder, #4 welding cable and Twist-Mate™ adapter.

Order M17257

TIG OPTIONS

TIG-Mate™ 17 Air-Cooled TIG Torch Starter Pack

Get everything you need for TIG welding in one complete easy-to-order kit packaged in its own portable carrying case. Includes: PTA-17 torch, parts kit, Harris flowmeter/regulator, 10 ft. gas hose, Twist-mate™ adapter, and work clamp and cable.

Order K2266-1



TIG-Mate™ 20 Water-Cooled TIG Torch Starter Pack

Get everything you need for TIG welding in one complete easy-to-order kit packaged in its own portable carrying case. Includes: PTW-20 torch, parts kit, Harris flowmeter/regulator, 10 ft. gas hose, Twist-Mate™ adapter, work clamp and cable and 10 ft. water hose.

Order K2267-1



Pro-Torch™ TIG Torches

One piece Air-Cooled PTA-9 or -17 TIG torches may be connected directly with the included K1622-1 TIG Torch Adapter.

Order K1781-1 for PTA-9, 12.5 ft., 1-cable.

Order K1782-1 for PTA-17, 12.5 ft., 1-cable.

A full line of TIG torches in various lengths and types are available.

Request Lincoln Publication E12.150 for more information.



Foot Amptrol™

Provides 25 ft. (7.6m) of remote current control for TIG welding. (6 pin plug connection).

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. (7.6m) plug cable.

Order K870-1



Hand Amptrol™

Provides 25 ft. (7.6m) of remote current control for TIG welding. (6 pin plug connection)

Order K963-1 for PTA-9, PTA-17, PTW-20 TIG Torches.

Arc Start Switch

May be used in place of the Foot or Hand Amptrol. Comes with a 25 ft. (7.6m) cable. Attaches to the TIG torch for convenient finger control to start and stop the weld cycle at the current set on the machine.

Order K814



Cool-Arc™ 40 Water Cooler

Energy efficient long life cooler for water-cooled welding applications.

Order K1813-1 for 115V.

Order K2187-1 for 230V.



Cut Length Consumables

TIG welding filler metals are available for welding stainless steel, mild steel, aluminum and copper alloys.

Request Lincoln Publication C9.10 for more information.



INVERTEC® V160-T ORDER FORM

PRODUCT DESCRIPTION	ORDER NUMBER	QUANTITY	PRICE
Invertec V160-T	K1845-1		
Recommended General Options			
Welding Cart	K2275-1		
Recommended Stick Options			
Stick Electrode Holder Cable Assembly	M17257		
Recommended TIG Options			
TIG-Mate™ 17 Air-Cooled TIG Torch Starter Pack	K2266-1		
TIG-Mate™ 20 Water-Cooled TIG Torch Starter Pack	K2267-1		
Pro-Torch™ TIG Torches:			
PTA-9 TIG Torch, 12.5 ft. 1-cable, 125 amps	K1781-1		
PTA-17 TIG Torch, 12.5 ft. 1-cable, 150 amps	K1782-1		
TIG Torch Adapter (required for PTA-9, -17)	K1622-1		
Foot Amptrol	K870		
Start Pedal Foot Amptrol	K870-1		
Hand Amptrol – For smaller handle 9, 17, or 20 series torches	K963-1		
Arc Start Switch	K814		
Cool Arc 40 Water Cooler:			
115/1/50/60	K1813-1		
220-240/1/50/60	K2187-1		
Cut Length Consumables	See Publication C9.10		
	TOTAL:		

CUSTOMER ASSISTANCE POLICY

The business of The Lincoln Electric Company is manufacturing and selling high quality welding equipment, consumables, and cutting equipment. Our challenge is to meet the needs of our customers and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for advice or information about their use of our products. We respond to our customers based on the best information in our possession at that time. Lincoln Electric is not in a position to warrant or guarantee such advice, and assumes no liability, with respect to such information or advice. We expressly disclaim any warranty of any kind, including any warranty of fitness for any customer's particular purpose, with respect to such information or advice. As a matter of practical consideration, we also cannot assume any responsibility for updating or correcting any such information or advice once it has been given, nor does the provision of information or advice create, expand or alter any warranty with respect to the sale of our products.

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