DESIGNED SMART. BUILT TOUGH.
Invertec® V350 PRO

KEY FEATURES
The multi-process Invertec V350 PRO machine is an efficient, lightweight and portable choice for training, fabrication or construction applications. Its ability to accept input power from 208-575V and 1-phase or 3-phase power makes it versatile and ready for applications around the world.

Processes » Stick, DC TIG, MIG, Flux-Cored, Gouging

Output »

Input »

Product Number » K1728-5, K1728-6, K1728-13, K1728-12, K2437-2
FEATURES

→ Exceptional Multi-Process Fabrication Welding
  · CC - Stick Soft
  · CC - Stick Crisp
  · DC TIG
  · CV - Wire – For MIG and Metal-Cored
  · CV - Innershield® and Outershield® Flux-Cored
  · Arc Gouging – Accessible from All Modes – Plenty of power to handle a 5/16 in. (7.9 mm) carbon

→ All input voltages and frequencies are both single and three phase rated
  No output derating necessary on single phase.

→ 5-425 amp output range
  For all recommended processes from DC TIG to arc gouging.

→ Input voltage from 208-575 and 50 and 60 Hz operation
  One machine runs on virtually any input power supply.

→ Touch Start TIG®
  For contamination-free starts.

→ Low power consumption for energy savings 88% efficiency.

→ Parallel two units
  For 700A carbon arc gouging.

→ Bright, large digital amp and volt meters are easy to monitor
  Even in sunlight – and presettable for precise procedure control.

→ Rugged skid and tube handles
  For convenience and added protection.

APPLICATIONS

- Metal Fabrication
- Construction
- Structural Fabrication
- Schools and Training Facilities
- Maintenance and Repair

RECOMMENDED FEEDERS

- LF-72
- LF-74
- LN-10
- DH-10
- LN-25 PRO
- LN-25 PRO Dual Power
- Flex Feed® 74HT
- Flex Feed® 84
Construction Model (K1728-5)

Our lightest, most portable model at a value price for conventional MIG, cored, stick, arc gouging and non-remote output control DC TIG applications.

Great For:

- Construction, maintenance or shop welding.

Compatible with:

- LN-25® PRO model wire feeders.
- 6-pin and 14-pin MS connector not included.

- Adds full remote capabilities and auto-detect local/remote override control.
- Versatile multi-process machine for MIG, cored, stick, TIG and arc gouging applications.

Great For:

- Construction or large-scale production factory applications.

Compatible with:

- LF-72, LF-74, LN-10, DH-10, and LN-25 PRO wire feeders.
- 6-pin and 14-pin MS-type connectors.

Factory Model (K1728-6 with Twist Mate Cable Receptacles) (K1728-13 with Tweco Cable Receptacles)

- Large, bright, easy to read meters
- Local/remote output control
- Mode selection switch
- Negative and Positive Twist Mate™ Output Terminals
- Wire Feeder Voltmeter Polarity Switch
- Circuit Breaker Reset Buttons
- On/Off Switch
- Hot Start Control
- Arc Control Knob
- Weld Terminals on or remotely controlled
- Preset Output Amps and Voltage Control
- Thermal Overload Indicator Light

Tweco® is a registered trademark of Thermadyne corporation.
**SYSTEM SELECTION**

**Ready-Pak® Packages**
Fully assembled and ready to weld—just add wire and gas.

**V350 PRO Factory Model / LF-72 Heavy Duty Wire Feeder**
(for non-pulsed MIG Welding)

**Order K2437-2**
- V350 PRO Factory Model
- LF-72 Heavy Duty Wire Feeder
- 15 ft. (4.5 m) Magnum® PRO 350 gun and cable assembly w/.035-.045 in. (0.9-1.2 mm) liner.
- Work and Wire Feeder 2/0 Welding Cable Package
- Harris® Flowmeter Regulator and Hose
- Heavy Duty Inverter and Wire Feeder Cart

**V350 PRO Inverter Racks**
- An ideal system to group several inverter power sources in an industrial portable package. Entire system meets National Electric Code (NEC) Standards.
- Includes Invertec V350 PRO Factory (Tweco) Model (K1728-13). This special rack version has all the same features as the factory model with added IP23S rating for outdoor use and Tweco cable receptacles.

**Order:**
- **K2667-1** 4-Pack Inverter Rack with 4 Invertec V350 PRO Factory (Tweco) Power Sources
- **K2667-2** 6-Pack Inverter Rack with 6 Invertec V350 PRO Factory (Tweco) Power Sources

**RECOMMENDED ACCESSORIES**

**GENERAL OPTIONS**
- Deluxe Adjustable Gas Regulator & Hose Kit
  - Accommodates CO₂, Argon, or Argon-blend gas cylinders
  - Includes a cylinder pressure gauge, dual scale flow gauge and 4.3 ft. (1.3 m) gas hose.
  - Order K586-1

- Work and Wire Feeder 2/0 Weld Cable Package
  - Includes Twist Mate™ connectors, work clamps, 15 ft. (4.5 m) work cable and 10 ft. (3.0 m) electrode cable. Rated 350 amps, 60% duty cycle.
  - Order K403-1

- Twist Mate Cable Plug
  - For connecting welding cable to output terminal receptacles. For 1/0-2/0 (50-70 mm²) cable.
  - Order K452-70

- Twist Mate Cable Plug
  - For connecting welding cable to output terminal receptacles. For 2/0-3/0 (70-95 mm²) cable.
  - Order K452-95

- Twist Mate Cable Receptacle
  - For connecting welding cable to Twist Mate Cable Plug.
  - Order K759-70 for 1/0-2/0 (50-70 mm²) cable
  - Order K759-95 for 20/30 (70-95mm²) cable

- Twist Mate to Lug Adapter
  - For connection of lugged cable to Twist Mate connectors. 18 in. (457 mm) long.
  - Order K2176-1

**Inverter and Wire Feeder Cart**
- Rear-wheeled cart includes front casters and no-lift gas bottle platform. Convenient handles allow for easy cable storage while full length side trays store parts and tools. Shipped fully assembled. Small footprint fits through 30 in. (762 mm) door.
- Order K7164-1

**Dual Cylinder Kit**
- Permits side-by-side mounting of two full size gas cylinders, with easy loading. For use with K7164-1 cart.
- Order K702-1

**LC-40HD**
- Tweco-Style Receptacle (male, 1/0 Thru 4/0)
  - Order K3417-70 for 1/0-2/0
  - Order K3417-90 for 2/0-3/0

**STICK OPTIONS**

**Accessory Kit**
- For stick welding. Includes 35 ft. (10.7 m) 2/0 electrode cable with lug, 30 ft. (9.1 m) 2/0 work cable with lugs, headshield, filter plate, cover plate, work clamp and electrode holder. 400 amp capacity.
  - Order K704

**Remote Output Control**
- For remote output of welding voltage. Consists of control box with four conductor cable and 6-pin MS-type connector.
  - Order K857 for 25 ft. (7.6 m)
  - Order K857-1 for 100 ft. (30 m)
TIG OPTIONS

Pro-Torch™ TIG Torches
A full line of air-cooled and water-cooled torches available. Request Lincoln publication E12.150

TIG Module
Portable, high frequency unit with gas valve for TIG welding. Rated at 300 amps/60% duty cycle. Requires TIG Module Control Cable. Order K930-2

TIG Module Control Cable
(For Factory and Advanced Process Models only) 9-pin connector at the TIG Module to 14-pin MS type connector at the power source. (Contains input power, remote control, contactor control, and ground circuits). For machines having a 14-pin remote control and power receptacle. Order K936-1

TIG Module Control Cable
(For Construction Model only) 9-pin connector at the TIG Module to a grounded 115V plug. (Contains input power, and ground circuits). For machines having no remote control capability. Order K936-4

Hand Amptrol™
Provides 25 ft. (7.6 m) of remote current control for TIG welding. [6-pin plug connection]. Order K963-3

Foot Amptrol™
Provides 25 ft. (7.6 m) of remote current control for TIG welding. [6-pin plug connection]. Order K970

Air Start Switch
May be used in place of the Foot or Hand Amptrol. Comes with a 25 ft. (7.6 m) 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

Invertec TIG Solenoid Kit
Mounts inside the back of the V350 PRO. Switches gas flow in the V350 PRO through the Twist Mate™ connector. Includes gas hose and solenoid. [Not compatible with construction and factory (Tweco) models]. Order K9762-2

Twist Mate Torch Adapter
For connection of Pro-Torch TIG torches [1 piece cable] to power sources with gas passing through the Twist Mate connection. For use with K9762-2. Order K962-1 For air-cooled PTA-9 or PTA-17 torches. Order K962-3 For air-cooled PTA-26 torches. Order K962-4 For water-cooled torches.

Twist Mate Torch Adapter
For connection of PTA-9 or PTA-17V torches [1 piece cable] to power sources without gas passing through the Twist Mate connection. Order K2265-1

Twist Mate Torch Adapter
For connection of PTA-20 water-cooled torches. Order K2267-1

TIG-Mate™ 17V Air-Cooled TIG Torch Starter Kit
Get everything you need for TIG welding in one complete easy-to-order kit packaged in its own portable carrying case. Includes: PTA-17V torch, parts kit, Harris flowmeter/regulator, 10 ft. (3.0 m) gas hose, and work clamp and cable. Order K2266-1

TIG-Mate™ 20 Water-Cooled TIG Torch Starter Kit
Get everything you need for TIG welding in one complete easy-to-order kit packaged in its own portable carrying case. Includes: PTA-20 torch, parts kit, Harris flowmeter/regulator, 10 ft. (3.0 m) gas hose, and work clamp and cable. Order K2267-1

RECOMMENDED ACCESSORIES
PRODUCT SPECIFICATIONS

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Product Number</th>
<th>Model</th>
<th>Input Power</th>
<th>Rated Output Current/ Voltage/ Duty Cycle</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>
</tr>
</thead>
<tbody>
<tr>
<td>Invertec V50 PRO</td>
<td>K1728-5</td>
<td>Construction</td>
<td>200-206/230/380-415/460/575/59/60</td>
<td>350A/34V/60%</td>
<td>3ph: 50/42/28-26/23/18</td>
<td>5-42/5A</td>
<td>480/270/162</td>
<td>14.8 x 13.3 x 27.8</td>
</tr>
<tr>
<td>K1728-6</td>
<td>Factory</td>
<td>200/230/380/460/575/59/60</td>
<td>300A/32V/100%</td>
<td>1ph: 94/85/54/42/37</td>
<td>Max OCV: 80V DC</td>
<td>81.5 (37)</td>
<td>--</td>
<td></td>
</tr>
<tr>
<td>K2437-2</td>
<td>CE</td>
<td>200-208/230/380-415/460/575/59/60</td>
<td>300A/32V/100% (1ph)</td>
<td>1ph: - 64/44-43/38-35</td>
<td>--</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>


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 information or advice about their use of our products. Our employees respond to inquiries to the best of their ability based on information provided to them by the customers and the knowledge they may have concerning the application. Our employees, however, are not in a position to verify the information provided or to evaluate the engineering requirements for the particular weldment. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or advice. Moreover, the provision of such information or advice does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or advice, including any implied warranty of merchantability or any warranty of fitness for any customers’ particular purpose is specifically disclaimed.

Lincoln Electric is a responsive manufacturer, but the selection and use of specific products sold by Lincoln Electric is solely within the control of, and remains the sole responsibility of the customer. Many variables beyond the control of Lincoln Electric affect the results obtained in applying these types of fabrication methods and service requirements.

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.

The Lincoln Electric Company
22801 St. Clair Avenue • Cleveland, OH • 44117-1199 • U.S.A.
www.lincolnelectric.com