MK CobraTig® 150
Digital GTAW Orbital Tube Welder

Weld Circles Around the Competition!

The portable, lightweight CobraTig® 150 with SmartArc® provides the automatic control you need to deliver repeatability, verification and traceability in high integrity orbital welding.

SmartArc® software develops a near ideal weld procedure through the use of our Automatic Procedure Generator. Just enter the tube OD and wall thickness - the rest is automatic.

The rugged construction of the portable CobraTig® 150 is the perfect package for your construction environments ... and the CobraTig® 150 weighs only 42 pounds (19.1 kg)!

The optional CobraCooler™ water supply fits tightly under the power supply providing water cooling for any MK weldhead. All CobraTig® 150 systems are shipped in a sealed rugged case with wheels.

FEATURES AT A GLANCE

- User Friendly LCD Program Screens
- Weighs just 42 Pounds (19.1 kg)
- 150 Amps @ 100% Duty Cycle
- Auto Procedure Generation
- Complete Data Monitoring
- SmartArc® Digital Controller
- High Speed Thermal Printer
- Optional Integrated CobraCooler™

SALES AND TECHNICAL/WELDING SUPPORT PROVIDED BY: Pro-Fusion Technologies, Inc.
10901 McBride Lane, Knoxville TN, 37932.
Phone: 865.671.7682. Fax: 865.671.7686.
Web Site: www.pro-fusiononline.com
Model 254-150  CobraTig™ 150
Digital Welding Power Source Features

- 150 amps pulsed or constant current stable down to 1 amp.
- High Voltage Pulse automatic arc starting to 25 amps.
- Orbital and manual weld modes of operation.
- (APG) Automatic Procedure Generation, simplifies orbital weld procedure development by creating a near ideal procedure from basic input data such as tube OD and wall thickness.
- Automatic Tacking feature provides up to 7 opposing tack locations around the weld joint circumference.
- Automatic orbital weldhead speed calibration.
- (8) weld levels for smooth current and motor sloping around the circumference plus upslope and final slope.
- Level by level scaling software remembers, and recalculates upon demand, all modifications performed by the operator during the orbital weld resulting in a “new” weld procedure that can be saved for future use if desired.
- LCD display provides automatic light sensor for day or night viewing.
- Integrated high-speed thermal printer provides real-time weld data monitoring and post weld reporting of orbital weld procedure text and waveform graphs.
- Soft-key front panel keypad for user interface.
- Store and modify up to 25 orbital weld procedures.
- Metric and English units for orbital weld data input.
- 3 range manual weld modes, 0-50, 0-100 and 0-150 amp ranges, constant or pulsed.

Data Monitoring and Performance Logging

- Data monitoring of faults detected during the weld sequence, including gas, current, voltage and motor.
- Performance logging of weld parameter text and graphic waveform graphs, such as current, voltage and motor. For monitoring and logging output deviations from demand values.

Computer Control System

- MICRO-CONTROLLER ARCHITECTURE
  Proprietary multi-tasking operating software
- COMPUTER MEMORY
  Dual Micro-Controller design with non-erasable loader program and FLASH user up-datable memory for software storage. Non-volatile SRAM for user programs (saved on power off).
- INFRARED COMMUNICATION PORT
  Transfers weld procedures between CobraTig® 150’s.
- SOFTWARE UPDATES
- PROGRAM STORAGE
  25 weld procedures in machine, unlimited on floppy disk.

Technical Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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<tbody>
<tr>
<td>LINE POWER:</td>
<td>100VAC (+/-10%), 60 Hz single phase</td>
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<tr>
<td></td>
<td>120VAC (+/-10%), 60 Hz single-phase</td>
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<tr>
<td></td>
<td>208/240 (+/-10%), single or 3 phase, 50/60 Hz, 30 amps.</td>
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<tr>
<td>OUTPUT CURRENT:</td>
<td>150 amp, (+/- 1%), constant or pulsed.</td>
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<td>PULSE RATE:</td>
<td>0.01 to 2.55 seconds per pulse.</td>
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<td>ARC VOLTAGE:</td>
<td>65VDC open circuit, up to 26VDC while welding.</td>
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<td>LOOP RESPONSE:</td>
<td>1.5 KHz.</td>
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<tr>
<td>CURRENT REG. FREQUENCY:</td>
<td>30 KHz.</td>
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<tr>
<td>MOTOR CONTROL:</td>
<td>24V, 2 amp maximum DC tachometer feedback.</td>
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<tr>
<td>WEIGHT</td>
<td>42 lbs /19.1 kg</td>
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<tr>
<td>HEIGHT</td>
<td>14 in /35.6 cm</td>
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<tr>
<td>WIDTH</td>
<td>8.5 in /21.6 cm</td>
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<tr>
<td>LENGTH</td>
<td>19 in /48.3 cm</td>
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Options

- 250-150 CobraCooler™
- 005-0610 Accessory kit
- 005-0652 AmpTrack Torch Control kit

WeldHeads Supported

- Model 5000 MK Mr. Micro Weldhead.
- Models 5001-5003, MK Copperheads.
- Models 6004, MK Cartridge Weldhead.
- Arc Machines Weldheads
- Astro Arc Weldheads