

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.



CobraTig® 150 Shown with Optional 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

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™

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 wave forms, 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**
Through RS 232 cable from computer/laptop. Off-Line Program Generation with Windows® NT/95/98 Software Program. Also Convert ACL Custom Procedures.
- **PROGRAM STORAGE**
25 weld procedures in machine, unlimited on floppy disk.

Technical Specifications

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

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

