The model 514 brings the benefits of true digital technology to the orbital welding customer: unparalleled accuracy, repeatability, and reliability. Digital technology forever eliminates the need for periodic weld head calibration – rotation speed remains accurate regardless of head wear, and heads can be interchanged without time-consuming calibration. Weld parameters are actively monitored for QA/QC reporting. Now equipped with an intuitive, color touch screen interface, both programming and every day usage is faster and simpler.

- Unique autoprogramming
- Rugged design
- Operates fusion and wire feed heads
FEATURES
• 200 amp output @ 100% duty cycle
• Up to 100 levels per program
• Stores 100 weld programs internally
• Wire feed capability for wire feed heads
• AutoProgram automatically generates procedures
• Programmable “override limits” provide supervisory control
• Weld parameter monitoring/reporting for QA/QC purpose
• Transfer programs and data to PCs using USB flash drive
• Offline programming with USB program transfer
• AutoTack automatically generates tack weld programs
• Large, color LCD touch screen
• Head-mounted membrane switches eliminate remote pendant
• Help files provide immediate information/assistance
• Password protection of key functions
• Built-in printer allows program/QC report printout
• Detachable coolant recirculator with integral flow switch protection
• Operator immediately alerted to entry errors, with prompts

SPECIFICATIONS

Application
For use with many weld head models (GTAW process)

Functions controlled
Welding current output/current pulsing, weld head rotation, weld head wire feed speed

Output power
0 – 200 amps

Input power requirements
115/230 VAC, 1 Ø, 4.0 KVA, 50/60 Hz

Internal memory capacity
100 weld programs

Units of measurement
Metric and Inch (selectable)

Program transfer
USB flash drive

Language (selection)
English, Spanish, German, French, others

Settable override limits
Individually scalable overrides on each function 0 – 100%

Maximum open circuit voltage
80 V

Water and gas flow switches
Standard. Prevent damage to equipment and workpiece

Data recording/printout
Operator ID, weld ID number, program number, material, OD, wall thickness, date, time, weld head model, project, drawing, programmed parameters, etc.

QC-parameter monitoring/recording/printout
Monitors and records any actual deviations from preprogrammed limits

Arc start type
HF

Operating/storage temperature
Operating: -18 to 50°C [0 to 120°F] Storage: -25 to 60°C [-20 to 140°F]

Humidity
To 98% RH (non-condensing)