

Orbital Welding Equipment



ORBIMAT® 165 CA *dvanced* Compact Computer Controlled Orbital Welding Power Source



- Exclusive new design with Single Knob Operation
- Swivel Mount 10,5" Colour Monitor
- Graphical Operator Guidance
- Flow force programmable Arc gas flow
- **BUP CONTROL** Programming (Sectional programming of Internal purging pressure with optional BUP CONTROL Module)
- Clear Procedure Organisation with Folder structure
- **AUTO-PROGRAMMING** with input of Tube diameter, wall-thickness, Type of gas and material
- Extensive Data-Logging
- Data transfer via integral **MULTI CARD READER** (suitable for nearly all common cards)
- PC Offline Software (Optional) with simple conversion of Data Log Files into pdf files
- **WIDE RANGE** input voltage 85 – 260 V /50-60 Hz
- Integral Water Cooler
- Total weight only 26kg, including full water cooler
- Maintenance friendly with **PSS (Pro-Service-System)**

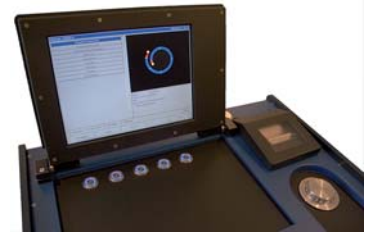
ORBIMAT 165CA

The **ORBIMAT 165 CA^{advanced}** is designed with an exclusive new operational concept. A graphical operation menu system allows the flexible control system to be navigated using a single knob. The swivelling, highly visible monitor allows the operator to select the optimum viewing position. Folders can be created to organise the 5000 welding procedures, that the machine can hold, in a systematic filing system.

The **ORBIMAT 165 CA^{advanced}** can operate from any input voltage from 85 – 260V AC, without the need for any adaptation or switching required. This allows the system to be used on all known world wide single phase voltage supplies, even when the main supply sees large input voltage deviations.

The **ORBIMAT 165 CA^{advanced}** includes the well proven ORBIMATIC AUTO-PROGRAMMING with easy weld procedure generation, which requires input of Diameter, Wall thickness, Material and Gas, as well as the current slope function between a maximum 99 different Welding Levels.

The standard version of the ORBIMAT 165 CA^{Advanced} includes the control system for cold wire feeding and is therefore able to run the complete range of ORBIMATIC Weld heads.



Flow Force and BUP Control System

A new feature the so called Flow Force makes the arch gas rate adjustable. This allows pre-purge times to be reduced on enclosed weld heads down to 7 seconds!

The optional BUP Control Module is a unique feature which allows the internal purge pressure to be optimised during the weld cycle thus compensating the sinking of the welding pool.

The BUP Control allows the internal purge pressure to be adjusted during the welding cycle to take into account the physical welding position.



Data-Logging

A wide range of Data-Logging options are available for documentation and archiving. With the use of the full function keyboard (supplied with the machine) additional information can be added to the data log file such as electrode type, welder's name, detailed application description and so on.

Since printing after every weld maybe unpractical under some conditions, the data log files can be saved temporarily on a COMPACT-FLASH-Card.

ORBIMATIC offers even an OFFLINE Soft-/Hardware package, to allow transfer of Data Log files to any PC for archiving and administration.

PSS System

The new PSS (Pro-Service-System) brings a new dimension to Orbital Welding. PSS allows the operator to easily detect any failures on the system, which permits rapid maintenance on site. With a very systematic order of each component, all parts are easy to locate and exchange. Key components are connected by simple plugs. An LED panel is located on the rear side of the machine and this allows the operator to identify an future problems without having any technical knowledge, or the need for any other instruments.

Furthermore specific control functions of the system can be temporarily switched off in order to complete, with extreme care, an immediate application on site. The machine can then be taken to a workshop to be serviced and repair the fault.



Technical Data:

Dimension:	510 x 360 x 220 mm
Weight:	26 kg
Output Range:	2 -165 A at Input Voltage > 160 V 2 -110 A at Input Voltage < 160 V
Duty Cycle:	100% at 100 A, 40% at 165 A
Input Voltage:	from 85 V – 260 V, 1 phase – 50/60Hz

Specification subject to change without notice



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