

••• Auto-programming,
multi-language
operation and highly
visible 10.5" colour
monitor



ORBIMAT® 165 CB_{asic} ORBIMAT® 300 CB_{asic}

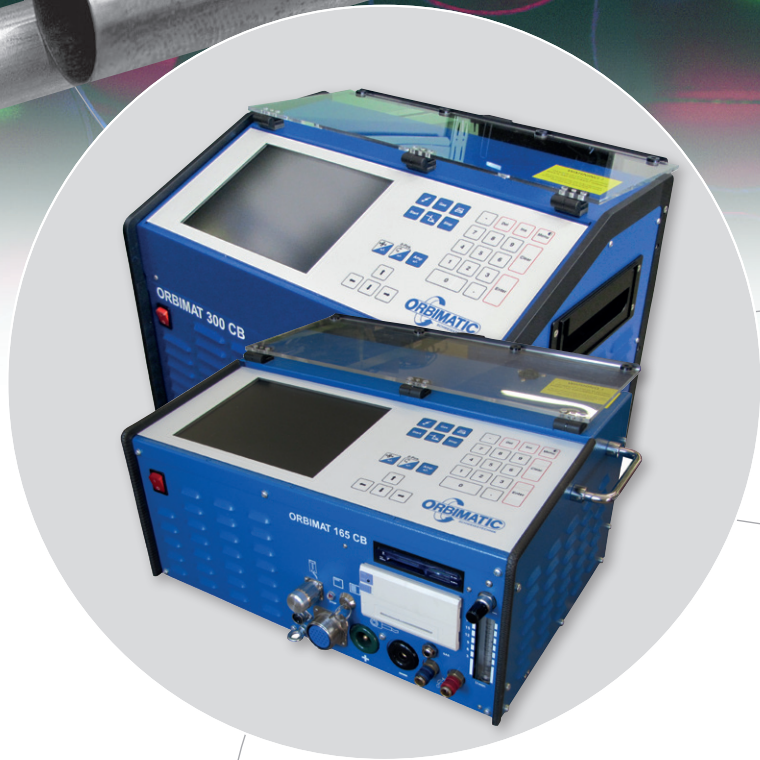
Compact computer controlled
orbital welding power sources.

Easy to use Auto-Programming which
requires only input of:

- Tube diameter
- Wall thickness
- Material
- Welding gas

Unique features:

- Compact design
- High visible 10.5" Monitor
- Multi-Language Operation on Colour Display
- Storage capacity for more than 5000 welding procedures
- Extensive data logging with multi-language system
- Built-in mini printer
- PC offline software (optional) with simple conversion of data log files into pdf-files
- Storage extension and data transfer via CompactFlash-Card
- Integral water cooler (only with 165 CB)
- Total weight only 26 kg (165 CB) and/or 48 kg (300 CB), including full water cooler
- Maintenance friendly with PSS (Pro-Service-System)



••• Storage extension
and data transfer
via CompactFlash-
Card



Computer-controlled power source for orbital welding



Data logging: Offers a wide range of data-logging options for documentation and archiving



PSS Pro-Service-System: Easily detecting failures on the system which permits rapid maintenance on site



ORBITWIN Parallel Switching Box

ORBIMAT 165 CB und ORBIMAT 300 CB – worldwide unique in performance and size!

The ORBIMAT CB-series implements a completely newly developed computer system, which sets with its various field of applications new dimensions in orbital welding technology. Use of the latest power-electronic components allows a more compact design which gives massive reductions in weight.

Weighting only 26 kg (165 CB) and/or 48 kg (300 CB) (incl. water cooling) and with dimensions of 510 x 360 x 220 mm (165 CB) and 530 x 400 x 400 mm (300 CB) the ORBIMAT CB-series is unequalled worldwide in relation to size and output!

A further new development is the "**Wide-Range**" input voltage of 85 - 260 V which allows connection to all world-wide single phase supply systems. This also allows the system to be used in situations where it has never been able to use this type of system because of the wide variation in input voltage, such as with mobile generators and on unstable power supply systems with extreme deviation outputs.

Obviously the ORBIMAT CB-series includes the well proven **ORBIMATIC AUTOPROGRAMMING** with easy weld procedure generation, which requires input of diameter, wall thickness, material and gas.

The standard version of the ORBIMAT CB includes the control system for cold-wirefeeding and is therefore able to run the complete range of ORBIMATIC weld heads.

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 FLASH-Card.

ORBIMATIC offers even an OFFLINE soft-/hardware-package (DATA LOGGIN Package) to allow transfer of data log files and procedures to any PC for archiving, administration and conversion into pdf-files.

PSS Pro Service 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 any 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.



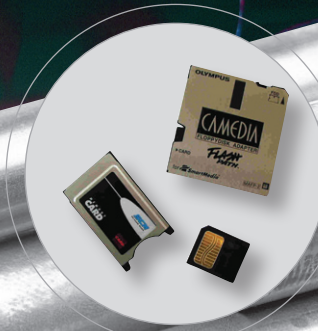
Heavy-duty transport case
(here with ORBITWIN 300 CA)



ORBICAR W trolley
with integrated water
cooling system



CompactFlash Card
32 MB



DATA-LOGGING
package

Accessories

ORBITWIN Parallel Switching Box

For maximum production the ORBITWIN can be used to allow simultaneous connection of 2 weld heads.

The ORBITWIN will allow the connection of 2 different head models. Each weld head can be assigned a separate welding procedure and the ORBITWIN will automatically transfer all services to the weld head in use and recall the associated procedure.

While one head is in use the other is isolated, allowing the operator to set one head while the other is welding.

Article	To use with ORBITWIN	Code
ORBITWIN 165 CB	165 CB	860 000 001
ORBITWIN 165 CA	165 CA	861 000 001
ORBITWIN 300	300 CA, 300 CB, 300 CA-AC/DC	876 000 001

ORBICAR Trolley

The ORBICAR ist a practical trolley with a tray and a mounting possibility for the gas bottle. The ORBICAR W additionally includes an integrated water cooling system and therefore is an alternative to the compact-water-circulator ORBICOOL 3004.

Article	To use with ORBITWIN	Code
ORBICAR S trolley	165 CB, 165 CA	884 000 001
ORBICAR W trolley	300 CB, 300 CA, 300 CA-AC/DC	884 000 002

Heavy-duty transport case on stable wheels

Suitable for power sources including ORBICOOL 3004.

Article	To use with ORBITWIN	Code
Transport case	165 CB, 165 CA	875 050 002
Transport case	300 CB, 300 CA, 300 CA-AC/DC	874 050 001

DATA-LOGGING Package, CompactFlash Card

Applicable with all ORBITWIN power sources.

For external programming and archiving.

Consisting of:

- 1 CompactFlash Card 32 MB for about 2000 welding procedures or log-files.
- 1 Multi-Card Reader with Standard USB.
- Software for external editing and storing of welding procedures, software ORBIPROT for converting data-log-files into PDF files within selection of 11 different languages incl. English, Polish, French, Italian, German.

Operation can practically be done with nearly each standard PC.

Article	Code
DATA-LOGGING Package (incl. CompactFlash Card 32 MB)	875 050 003
CompactFlash Card 32 MB	875 012 056

More innovative products for orbital welding:



ORBIWELD

Totally enclosed, extra thin orbital tube welding heads yet with extremely high duty cycle because of powerful water cooling.

Because of its extremely small dimensions, the ORBIWELD S series is the perfect solution for applications with tight access restrictions an frequently found in pharmaceutical and similar areas.



ORBIWELD TP

Open-Arc weld heads with or without cold-wire-feeding.

The new ORBIWELD TP series are completely unique in design, making it very versatile. Locating the motor inside the main housing, results in the ORBIWELD TP series being very compact in design and the revolutionary design of the drive system makes large and bulky drive mechanisms a thing of the past.



P 16 / P 20

These orbital weld heads have been designed to enable the welding of boiler tubes fitted to tube sheets in heat exchangers.

They allow this task to be carried out using a precision orbital welding power supply, such as the ORBIMAT C-range. This means that the rotation of the torch is consistent and the delivery of the welding current is also kept constant and can be varied around the circumference of the tube.



ORBIPURGE Stopper Kit

Contains all you need for your external purging needs. The stoppers can be used purging and blanking of tubes and fittings. Two hollow plugs of each size are supplied as well as some smaller solid plugs for blanking. The kit is supplied in an attractive ABS case with a range of hose fittings for most applications. All plugs are made from white nylon and are lightweight and durable.

Technical data

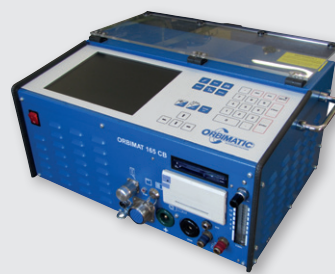
	ORBIMAT 165 CB	ORBIMAT 300 CB
Code	875 000 001	874 000 001
Input Power, WIDE-RANGE	85 - 260 V, 50/60 Hz, 1 phase	3 x 400 VAC +/- 15%
Output Range	2 - 165 A at input voltage > 160 V 2 - 110 A at input voltage > 160 V	3 - 300 A
Output Range	100% at 100 A 40% at 165 A	100% at 200 A 60% at 300 A
Weight		
without water cooler system *		34 kg
with water cooler system	26 kg	48 kg
Abmessungen		
without water cooler system *		530 x 400 x 400 mm
with water cooler system	510 x 360 x 220 mm	530 x 575 x 400 mm

* the ORBIMAT 165 CB already comes with the water cooler system.

The ORBIMAT CB-series is working with all weld-heads from ORBIMATIC.

The technical data are not binding. They are not warranted characteristics and are subject to change. Please consult our general conditions of supply.

Compact computer controlled orbital welding power sources



ORBIMAT 165 CB



ORBIMAT 300 CB

Stamp of distributor:

© Orbitalum Tools GmbH (09.2009)

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