NEW!

Also with electronic arc voltage control (AVC) and oscillation (OSC)!

ORBIMAT® CAdvanced

Compact computer controlled orbital welding power sources!

Combined with suitable orbital welding heads from Orbimatic, you gain a unique and innovative orbital welding system for safe and efficient orbital welding.



- Unique operating concept with tried and tested automatic programming of the welding program
- Swivel mount 10.5" colour monitor
- •••• Comprehensive data logging











ORBIMAT 165 CA
Power supply for orbital

Power supply for orbital welding with integrated water cooling system

ORBIMAT 300 CA Power Supply for orbital welding with control range

up to 300 A

ORBIMAT 300 CA AC/DC Computer-controlled compact power supply for orbital welding, also for aluminum materials.

ORBIMAT 300 CA AVC/OSC Computer-controlled power supply for orbital welding with arc voltage control (AVC) and oscillation (OSC).

ORBIMAT 165 CA and ORBIMAT 300 CA - worldwide unique in performance and size!

Unique features

- Simple and convenient operation thanks to multifuntional rotary actuator.
- Reliable ORBIMATIC automatic programming which generates welding parameters by entering the tube diameter, wall thickness, material, and welding gas!
- Automatic programming and multilingual menu navigation via color display.
- Clear procedure organisation with folder structure.
- "On-the-fly" adjustment of all welding parameters during the welding process.
- Capacity to store over 5,000 welding programs.
- The new feature Flow Force makes the arch gas rate adjustable. This allows pre-purge times to be reduced on enclosed weld heads down to approx. 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.
- PSS Pro-Service System: Simple functional test with no need to open the unit.
- Integrated job printer allows actual values to be printed out.
- A multicard reader enables data to be transferred easily to an external PC.
- Automatic recognition of connected orbital welding heads.
- To increase productivity, the switching unit ORBITWIN is available, with which 2 welding heads can be operated alternately on the ORBIMAT.*



multifuntional rotary actuator



Automatic programming and multilingual menu



Integrated job printer



ORBITWIN switching device (optional)



PSS Pro-Service-System

New! ORBIMAT 300 CA AVC/OSC

The new ORBIMATIC arc voltage control **(AVC)** calculates and programs the length of the arc automatically in "mm" from the current voltage characteristics. This avoids the usual time spent calculating the necessary arc voltage each time the weld power changes to maintain the arc at a consistent length in the individual sectors.

During oscillation **(OSC)** each of the edge holding times can be synchronized with the high-pulse settings.



ORBIWELD

Enclosed orbital welding heads with extremely narrow design and intensive water cooling system



ORBIWELD TP

Open-arc orbital welding heads with unique design and functionality



P16 | P20

With this TIG welding head, it easy problem to weld tubes to tubesheets with the highest of accuracy and consistent quality

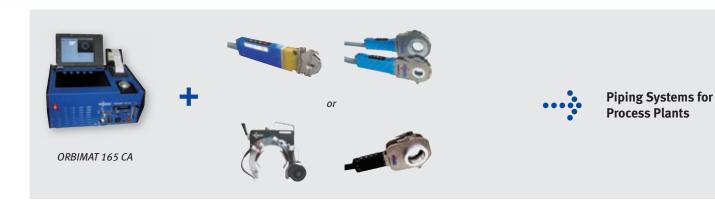


OP Serie

Tube-to-tube orbital weld heads for TIG welding procedures with slim design

The ORBIMAT CA-series is working with all weldheads from ORBIMATIC!

The following configuration examples demonstrate a small sample of possible applications





ORBIMAT 300 CA AVC/OSC









Piping Systems for Energy Plants



ORBIMAT 300 CA



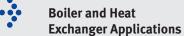
ORBITWIN switching device















Accessories for orbital welding power supplies ORBIMAT







ORBICAR S | ORBICAR W

The ORBICAR S is a practical trolley with storage shelf and an option of securing a gas cylinder

The ORBICAR W trolley has an integrated water coolant

ORBITWIN | ORBIPURGE

With the ORBITWIN switching device 2 welding heads can be operated alternately on the ORBIMAT

The ORBIPURGE forming set includes all accessories for fast and efficient internal forming during orbital welding.

BUP Control Box | ORB 1001

The BUP Control adjusts the forming gas pressure in the inner tube which compensates almost entirely entry of the seam weld into the sump position

Oxygen meter ORB 1001 to determine the residual oxygen in forming gases

Remote control | Soft-/Hardware package

Remote control suitable for all ORBIMAT orbital welding power supplies

Soft-/Hardware package for external programming and data documentationi

Technical data

ORBIMAT	165 CA	300 CA	300 CA Compact	300 CA AC/DC	300 CA-AC/DC Compact	300 CA AVC/OSC
Code	871 000 001	872 000 001	872 000 003	877 000 001	877 000 003	872 000 002
Input Power, WIDE-RANGE	90 - 260 V 50/60 Hz, 1 phase	3 x 400 VAC +/-15% 50/60 Hz	3 x 400 VAC +/-15% 50/60 Hz	3 x 400 V, +/-15% 50/60 Hz	3 x 400 V, +/-15% 50/60 Hz	3 x 400 VAC +/-15% 50/60 Hz
Output Range	2 - 165 A at input voltage > 160 V 2 - 110 A at input voltage < 160 V	3 - 300 A	3 - 300 A	5 - 300 A	5 - 300 A	3 - 300 A
Ouput Range	100% con 100 A 40% con 165 A	100% at 200 A 60% at 300 A	100% at 200 A 60% at 300 A	100% at 200 A 65% at 300 A	100% at 200 A 65% at 300 A	100% at 200 A 60% at 300 A
Weight	26 kg	33 kg	48 kg	41,4 kg	52 kg	37,3 kg
Dimensions	510 x 360 x 220 mm	530 x 400 x 400 mm	530 x 575 x 400 mm	530 x 400 x 400 mm	530 x 575 x 400 mm	530 x 400 x 400 mm
ORBITWIN	860 000 001	861 000 001	861 000 001	861 000 001	861 000 001	on request





Stamp of distributor:

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

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