



Innovative orbital welding systems

ORBITAL CONTROLLERS AND INVERTERS



The EVO Industry 4.0 series is new to the market. Several systems, initially compact as the 200 A Autorange and now also modular in connection with the Tetrax inverters.

The systems are small, lightweight and handy and offer a high-resolution colour display, multilingual intuitive user guidance due to a colour touch interface, or alternatively operation using a membrane keyboard, a stable operating system (without data loss during power outages and quickly ready for use again), full access through tablet with QR-code scanner, data transfer via USB, LAN and WLAN, fault analysis program, manufacturer support via remote maintenance, a mountable cooling unit as an option, and many other functions. Depending on the model, the systems are equipped with different features. Individual features can be added for a surcharge.

The EVO 200 WP, for example, has an analogue Turbo Purge function as standard. When the Turbo Purge function is activated, before and after the welding process the cassette weld head is purged with an increased amount of gas (setting using the analogue knob on the controller and digital display). Shortly before the welding process, the amount of gas is reduced to the amount required for the cassette weld head. This substantially shortens the welding process and achieves better welding results by precisely controlling the amount of gas.

In the case of the optional digital Turbo Purge function available for the EVO WP series, the gas flow is continuously measured and regulated by a gas flow controller. The amount of gas is set digitally on the display and saved in the program for future welding processes.

With the optional available Gas Controller Box, the Turbo Purge function can also be used with the EVO Modular WP.

During periods of high productivity, the cassette weld head can be preserved by activating the permanent gas function to extend the service life of the tungsten electrodes.

FEATURES	EVO 200 LITE	EVO 200 WP	EVO MODULAR LITE	EVO MODULAR WP
High-resolution 10.1" colour touch display	•	•	•	•
Robust display transport protection	•	•	•	•
Separate control panel for alternative operation	•	•	•	•
Extremely simple, intuitive user guidance with autoprogramming	•	•	•	•
Graphics-supported multilingual user interface	•	•	•	•
Metric and imperial units	•	•	•	•
Orbital tacking mode activatable		•		•
Integrated wire card		•		•
Analogue Turbo Purge		•		•
Permanent gas function	•	•	•	•
Real-time monitoring of the welding parameters	•	•	•	•
Continuous monitoring of all parameters such as welding speed, arc voltage, welding current, welding time, angle degrees, gas, water, residual oxygen, pressure	•	•	•	•
Rotor stop function for increased safety	•	•	•	•
4 GB flash memory for programs and documentation	•	•	•	•
Integrated thermal printer (longlife paper) with multilingual printing of actual / target parameters		•		•
Data transfer via USB	•	•	•	•
Data transfer via LAN / WLAN		•		•
Integrated help menu in the device	•	•	•	•
Fault analysis program	•	•	•	•
Remote maintenance	•	•	•	•

OPTIONAL	EVO 200 LITE	EVO 200 WP	EVO MODULAR LITE	EVO MODULAR WP
EXTERNAL PC SOFTWARE, ALSO WITH OFFLINE EDITING AND PROGRAMMING, DATA TRANSFER, EXTERNAL QUALITY CONTROL		.		.
QR CODE SCANNER INCL. SOFTWARE AND QR CODE GENERATOR FOR PC FOR USER LOGIN AND ACCESSING THE WELDING PROGRAMS		.		.
OPTION OF CONNECTING COMPETITOR WELD HEADS		.		.
DIGITAL TURBO PURGE		.		
AVC CARD FOR DC MOTORS (TURN)
AVC CARD FOR STEP MOTORS (RBK 5) INCL. Y-CABLE
WIRE CARD	.	▲	.	▲
COOLING UNIT THAT CAN BE MOUNTED AS AN OPTION

Item number

1.3.7008

1.3.7009

1.3.7005

1.3.7007

1.3.7003

1.3.7004

1.3.7006

▲ = EVO 200 WP STANDARD EQUIPMENT



EVO 200 WP ORBITAL WELDING SYSTEM (Autorange)

Technical data:

Type of current	DC
Mains voltage	AC 1 x 230 V +/- 15% AC 1 x 115 V +/- 15%
Mains frequency	50 / 60 Hz
Max. primary reserve power	6 kVA
Rec. generator output	9 kVA
Control range	5 – 200 A
Welding current	25% ED TIG 200 A 60% ED TIG 150 A 100% ED TIG 120 A

Weight:	16.8 kg
Dimensions (L x W x H):	500 x 340 x 360 mm



EVO with mounted EVO COOL cooling unit

EVO with mounted transport protection



Transport protection on the rear

Package includes:

- Orbital welding system
- Display transport protection
- Calibration certificate
- USB stick

Optional:

DISPLAY PROTECTION TRANSPARENT

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EVO 200 WP ORBITAL WELDING SYSTEM (Autorange) EVO 200 LITE ORBITAL WELDING SYSTEM (Autorange)

1.3.7000

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EVO MODULAR WP ORBITAL WELDING SYSTEM (Autorange) EVO MODULAR LITE ORBITAL WELDING SYSTEM (Autorange)

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1.3.7100

Connection to TETRIX 200 or TETRIX 351

Compact and light with the external dimensions
(L x W x H) 405 x 325 x 170 mm and weighing only 9.7 kg.

Optional:

- Water Cooling Unit COOL 50 or EVO COOL



QR CODE SCANNER

incl. software and QR code generator for PC for user login and accessing the welding programs

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EVO REMOTE CONTROL VIA 10" INDUSTRIAL TABLET WITH BARCODE SCANNER, DOCKING STATION AND BACKSTRAP

Robust 10" tablet as wireless remote control for all EVO orbital welding systems.

The user interface of the EVO controller is mirrored 1:1, providing full access with all functions. As the data is sent over WLAN/LAN, there is no delay to the controls or display. The range complies with common WLAN/LAN standards and can therefore be easily amplified or extended.

The tablet has an integrated 2D barcode or QR code scanner for user login and to access the welding programs.

The tablet can be used as a mobile device and in the stationary docking station.

Technical Data:

Display:	10.1" (25.65 cm) capacitive touch display
CPU:	Intel® Atom™ with Intel® Burst Frequency technology
Graphics card:	GPU Intel® HD 400 Graphics
Memory:	4 GB RAM, 64 GB eMMC
Connections:	WLAN, Bluetooth
Scanner:	QR-code scanner
Ports:	1x USB 2.0, 1x micro USB 2.0, HDMI, audio, docking port
Military standard:	MIL-STD 810G
Protection rating:	IP65
Battery life:	Up to 8 hours
Dimensions (LxWxH):	22 x 275.5 x 187.5 x mm
Weight:	1 kg

Package includes:

- Tablet
- Docking station
- Backstrap
- Power supply unit





GAS CONTROLLER BOX

The Gas Controller Box enables to control up to three gases during welding and regulate them through the EVO WP controllers. The welding, the purging, and an additional gas (e.g., for a trailing nozzle, for flooding a gas cover or a housing) can be monitored, regulated, completely documented, and stored in the EVO controllers. All welding and purging gases that are used for TIG welding are memorized in the controller menu.

TECHNICAL DATA:

Control range	1 – 54 l/min.
Gases	Ar, He, N ₂ , H ₂ (and mixed gases)
Gas connection	6 mm Push-In-Fitting in and out
Weight	0.9 kg
Dimensions (L x W x H)	180 x 220 x 100 mm

PACKAGE INCLUDES:

- Water- and dustproof Peli case.
- 1, 2 or 3 assembled mass flow controllers
- Connection cable Gas Controller Box / EVO WP controller

GAS CONTROLLER BOX (1 GAS)

GAS CONTROLLER BOX (2 GASES)

GAS CONTROLLER BOX (3 GASES)

1.3.7201

1.3.7202

1.3.7203



SWITCHBOX

Switchbox for welding with two welding heads.

1.3.9000

To increase productivity, the switch box can be used to weld alternately in conjunction with a controller from the EVO series with two weld heads. All welding tools can be used, i.e., enclosed weld and open frame weld heads, turn tables or tube-to-tube sheet weld heads, gas or water cooled, with or without wire feed or AVC.

By pressing the start button on the weld head, the welding program suitable for the respective weld head will get loaded.

The weld head that is not being used is locked and can get prepared for the next welding.

PACKAGE INCLUDES:

- Switchbox
- Control cables, gas hose, welding cables from EVO series to Switchbox

Technical data:

Mains voltage	100-240V (0,6-0,3A)
Mains frequency	50 / 60 Hz
Switching capacity:	24V 200A (100% ED)
Protection class:	IP 23
Dimensions (L x W x H)	500 x 340 x 160 mm
Weight	7.8 kg



EVO 200 WP
mit montierter Switchbox

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