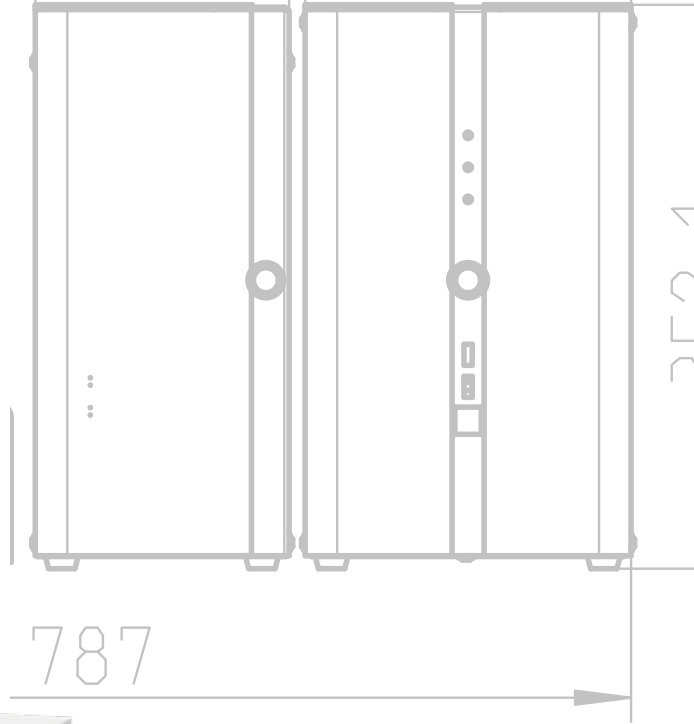


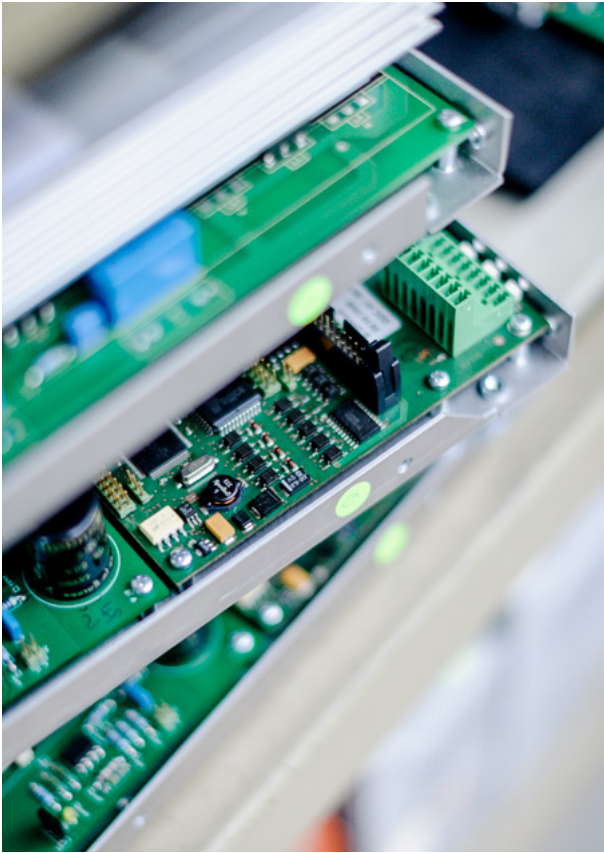
ULTRASONIC GENERATORS



 **rinco**[®]
ultrasonics

AROUND YOU EVERY DAY

RINCO ultrasonic generators



ULTRASONIC GENERATORS – EVERYTHING UNDER CONTROL, ALWAYS

With RINCO ultrasonic generators, you always have everything under control – from managing your manual units or the ultrasonic welding machine, through to triggering the ultrasound in an automation line or special machine. The generators are intuitive to operate and easy to install. They have a space-saving design, feature all the standard interfaces and can be used in almost all areas of application.

RINCO manufactures ultrasonic generators in 6 product series:

XDG SERIES
ADG SERIES
AGM PRO SERIES
SDG SERIES and
RDG SERIES

Our ***ECOLINE generator*** is the perfect solution for carrying out simple applications and textile welding.

Would you like a tailor-made solution for your specific requirements? Contact us and we will be happy to advise you.

COME AND DISCOVER THE OUTSTANDING QUALITY OF RINCO PRODUCTS FOR YOURSELF

We are proud that our efforts to achieve perfection have been recognised by official bodies. The ISO certifications awarded to us prove that Swiss values such as reliability and precision are important roots from which our corporate culture has grown. We will always offer consistently high quality and the very best service.



CE

All RINCO machines are **CE-compliant** and therefore meet high European standards.

RELIABILITY

RINCO generators operate very **reliably**, are practically maintenance-free and have a **long service life**.



EFFICIENT RINCO
AFTER SALES SERVICE

AFTER-SALES SERVICE

We help our customers out with **technical support** even after they have made a purchase.

XDG SERIES – Top of the range



SCU with XDG

Ultrasonic generators from the XDG series are compatible with ultrasonic welding machines from the Electrical Motion series and are also suitable for operating VEM actuators.

These ultrasonic generators are ideal for precise, **high-quality welding results** and for ensuring traceability thanks to the **audit trail**, which cannot be deleted.

The XDG series is suitable for cleanrooms and certified to ISO 14644-1 **ISO class 6**. As such, it meets the high requirements placed on devices used in the medical sector.

ISO
CLASS 6

COMPATIBLE DEVICES

Compatible with: Electrical Motion series
VEM series



ELECTRICAL MOTION SERIES



VEM SERIES

KHZ Operating frequency: 20 kHz, 35 kHz

W Output power: 3000 W, 2000 W, 900 W

Amplitude: 40–100%, can be altered in increments of 1%

KG Weight: XDG 16 kg
SCU 9 kg

Voltage: 230 V AC

FEATURES



MAXIMUM REPEATABILITY

The database for the two ultrasonic welding machines can store **as many parameter data sets** as required. **Welding data can also be saved on the internal hard drive or on an external storage medium.**



USER ADMINISTRATION

Multi-level user administration helps to improve quality assurance.



INCREASE PROCESS RELIABILITY

A **part counter** and a **reject counter** are integrated into all ultrasonic generators from the XDG series, along with a **setpoint part counter**.

INTERFACES

The XDG boasts the following interfaces:

- 3 USB ports
- 20 digital inputs
- 20 digital outputs, 3 of which are freely programmable
- 1 analogue input
- 1 analogue output
- 2 Ethernet ports
- 1 RS485 port
- 1 RS232 port



REMOTE ACCESS – REMOTE MAINTENANCE

Remote maintenance can be set up for our RINCO after-sales service to carry out quick and efficient troubleshooting.

FIELDS OF APPLICATION



AUTOMOTIVE



HIGH-TECH



PACKAGING



FOOD



NON-WOVEN & TEXTILE



MEDICAL



HOUSEHOLD



COSMETICS

**WELDING
CUTTING
PUNCHING
RIVETING
EMBOSSING
BEADING
INSERTING
DIE-SINKING
SEALING**

XDG SERIES – Top of the range

FUNCTIONS

8 WELDING MODES TO CHOOSE FROM

Thanks to the welding modes, you can find the **right setting for every application**, guaranteeing perfect welding. The following welding modes can be selected on the Electrical Motion series:



Welding time

W/S

Welding energy



W/S

Welding time AND/OR welding energy



Welding travel (absolute or differential)



Contact breaker



Melting rate

TRIGGER (ULTRASONIC TRIGGER POINT)

The welding operation can be initiated using a trigger. You can choose from the following triggers:



- Time
- Travel
- Force
- Off
- External signal
- Travel absolute and force

SOFTSTART AND SOFTSTOP FUNCTION

These functions gently **augment and attenuate the oscillations** of complex horns to protect them from damage.



SUITABLE FOR CLEANROOMS

A hermetically sealed outlet is available as an add-on for use in cleanrooms.



3-YEAR WARRANTY

Excluding converter, booster and tools

ADJUSTABLE AMPLITUDE

You can change the value for the internal and external amplitude to between **40 and 100%** in 1% increments so as to achieve the best possible welding or cutting result.



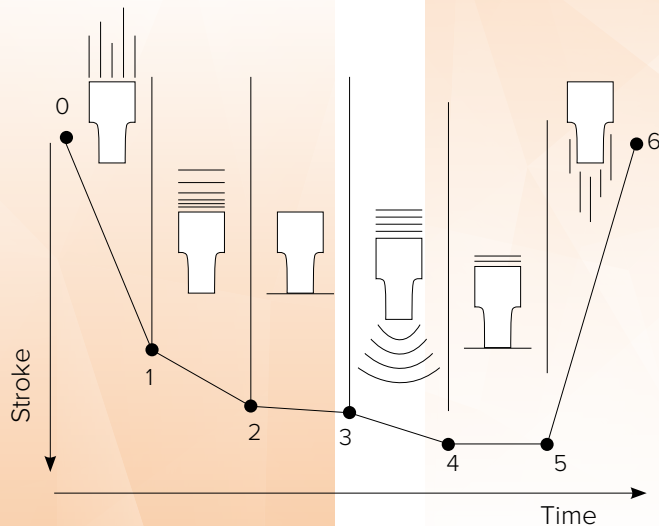
DATA EXPORT

A data string can be exported via RS232, Ethernet/a company network or a storage medium like a USB stick in order to log welding data.

FREELY PROGRAMMABLE STROKE MOVEMENT

Optimise your welding process by adjusting the stroke movement of the application accordingly.

- 0-1 Actuator moves from start position to brake position
- 1-2 Braking point from actuator speed to touchdown speed
- 2-3 Force builds up until trigger is reached
- 3-4 Welding process in up to 10 increments
- 4-5 Firming up and cooling-down phase
- 5-6 Actuator moves back



You can find other features as well as options and accessories for the XDG-series ultrasonic welding generators at the end of this brochure.

MULTILINGUAL

OPERATE THE GENERATOR IN YOUR LANGUAGE

The software for the XDG-series ultrasonic generators is available in lots of different languages.



ADG SERIES – Reliable and versatile



ADG

Ultrasonic generators from the ADG series are compatible with ultrasonic welding systems from the Standard series and are also suitable for operating several actuators.

ADG generators are ideal for production under extended quality control measures. They are also available as a **cleanroom version** and meet the high requirements placed on devices used in the medical sector.

KHZ Operating frequency: 20 kHz, 30 kHz, 35 kHz, 70 kHz



Output power: 3000 W, 2000 W, 1500 W, 1000 W, 900 W, 600 W, 400 W, 100 W



Amplitude: 40–100%, can be altered in increments of 1%



Weight: 16 kg



Display: 5", backlit



Voltage: 230 V AC

COMPATIBLE DEVICES

Compatible with:

Standard series
VST series
Several special actuators
SFC20



STANDARD SERIES



VST SERIES



SPA20



SV35-100/50



SFC20

FEATURES

QUALITY CONTROL

Ultrasonic generators from the ADG series can be used to set a wide range of **limits** that issue a warning or stop the welding process.

INTEGRATION INTO SPECIAL-PURPOSE MACHINES

The ADG generator is ideal for integration into special-purpose machines. It communicates with the **PLC** via digital I/O.

FIELDS OF APPLICATION



AUTOMOTIVE



HIGH-TECH



PACKAGING



FOOD



NON-WOVEN & TEXTILE



MEDICAL



HOUSEHOLD



COSMETICS

WELDING
CUTTING
PUNCHING
RIVETING
EMBOSSING
BEADING
INSERTING
DIE-SINKING
SEALING

ADG SERIES – Reliable and versatile



USER ADMINISTRATION

Multi-level user administration helps to improve quality assurance.



INCREASE PROCESS RELIABILITY

A **part counter** and a **reject counter** are integrated into all ultrasonic generators from the XDG series, along with a **setpoint part counter**.

WELDING		15:16:47
Project name:	RSW 2	
Data set number:	-	
Production lot:	-	
System Pressure:	[3.0]	5.6 bar
Weld energy:		98.6 Ws
Max. Power:	68 W	7.6 %
Power loss:	21 W	2.3 %
Frequency:		35008 Hz
Weld time:		1595 ms
Weld travel:		0.01 mm
Part counter:		146
Rejected Parts counter:		62
logout	Travel difference	back

5" DISPLAY

FUNCTIONS

7 WELDING MODES TO CHOOSE FROM

Thanks to the welding modes, you can find the **right setting for every application**, guaranteeing perfect welding. The following welding modes can be selected on the ADG series:



Welding time

W/S

Welding energy



W/S

Welding time AND/OR welding energy



Welding travel (absolute or differential)



Contact breaker



QUALITY ASSURANCE

Thanks to the RS232 serial interface, data can be transmitted so that the welding data can be logged externally.



MAXIMUM REPEATABILITY

All welding results can be exported and stored. The values from the last **25 welding operations are also saved in the machine** until it is shut down.



SOFTSTART AND SOFTSTOP FUNCTION

These functions gently **augment and attenuate the oscillations** of complex horns to protect them from damage.



TRIGGER (ULTRASONIC TRIGGER POINT)

The welding operation can be initiated using a trigger. You can choose from the following triggers:

- Time
- Travel
- Pressure
- Off
- External signal

SUITABLE FOR CLEANROOMS

A hermetically sealed outlet is available as an add-on for use in cleanrooms.

MULTILINGUAL

OPERATE THE GENERATOR IN YOUR LANGUAGE

The software for the ADG-series ultrasonic generators is available in lots of different languages.



You can find other features as well as options and accessories for the ADG-series ultrasonic welding generators at the end of this brochure.

ADG SERIES

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AGM PRO SERIES – Integration with the very best communication




AGM Pro


Ultrasonic generators from the AGM Pro series are designed for installation in **automated lines, special-purpose machines** and **automated welding systems**. They reliably perform ultrasonic welding tasks on thermoplastics and ultrasonic cutting tasks on technical textiles and food. Thanks to their slim design, they can be incorporated into small spaces in electrical cabinets. They are equipped with an optimised cooling system for this purpose.


Thanks to **fieldbus interfaces** and the **ProConnect web application**, ultrasonic generators are the ideal partners for your **Industry 4.0** concept.

pro
agm *pro*
connect


KHZ Operating frequency: 20 kHz, 30 kHz, 35 kHz, 40 kHz, 70 kHz

 Output power: 3000 W, 2000 W, 1500 W, 1000 W, 900 W, 800 W, 750 W, 500 W, 400 W, 100 W

 Amplitude: 15–100%, can be altered in increments of 1%

 Weight: 4 kg

 Display: 3.5", touch

 Voltage: 230 V AC

 Control: Via the system's own PLC

COMPATIBLE DEVICES

Compatible with:

Several cutters and special actuators



SV35-40



SPC35



SV35-100



SFC20



SPA20

AGM Pro series – At a glance

3.5" TOUCH DISPLAY

This is where **user management** plays an important part – while operators only have read access rights, technicians have both read and write access rights.



OPTIMISED COOLING MANAGEMENT

A fan ensures a stable temperature. The filter mats can be replaced.

DATA TRANSFER

You can use the USB port to **back up**, restore or copy parameter data sets from device to device.

You can also save the **current welding data** – either continuously or at the end of each welding operation. Each data set has a **timestamp**. The USB port can also be used to easily update the software.



INTERCHANGEABLE MODULES

The following **certified fieldbus interfaces** make it easy to integrate the generator into an existing system.

PROCONNECT

You can access the internal web server via the Ethernet port. You can also use ProConnect to perform **remote maintenance**.

pro
connect

OTHER COMMUNICATION INTERFACES

- RS485
- Digital and analogue inputs
- Digital and analogue outputs

DIGITAL ERROR CODING

Facilitates troubleshooting.

PROTECTED CABLE GUIDE

Thanks to the swivelling cover, the cables are protected from external influences.

TWO INSTALLATION OPTIONS

The generator can be installed in two different positions (to the side or the rear of the system) with the same bracket.

FIELDS OF APPLICATION



AUTOMOTIVE



HIGH-TECH



PACKAGING



FOOD



NON-WOVEN & TEXTILE



MEDICAL



HOUSEHOLD



COSMETICS

**WELDING
CUTTING
PUNCHING
RIVETING
EMBOSSING
BEADING
INSERTING
DIE-SINKING
SEALING**

AGM PRO SERIES

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ultrasonics

AGM PRO SERIES – Integration with the very best communication

CERTIFICATIONS & APPROVALS

For all AGM Pro-series ultrasonic generators:

- NRTL certification, cTUVus (for USA and Canada) – equal to UL certification
- SEMI S2 certificate
- CB test certificate
- CE marking

QUALITY CONTROL

The ultrasonic generators from the AGM Pro series can be used to set various limits that issue a warning or error message if they are breached.



MAXIMUM REPEATABILITY

Up to **8 parameter data sets** can be stored in the database.



SOFTSTART AND SOFTSTOP FUNCTION

These functions gently **augment and attenuate the oscillations** of complex horns.

6 WELDING MODES TO CHOOSE FROM Thanks to the welding modes, you can find the **right setting for every application**, guaranteeing perfect welding. The following welding modes can be selected on the AGM Pro series:



Welding time

W/S

Welding energy



Welding time AND/OR welding energy



Contact breaker



Continuous



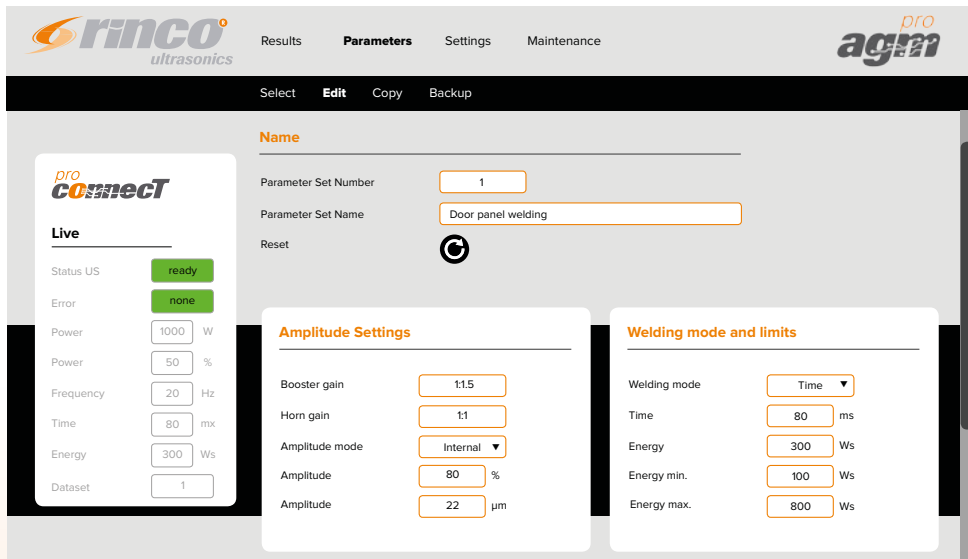
3.5" TOUCH DISPLAY
Shows the current status.



EASY ACCESS
Fuses are easy to access on the bottom of the generator.

PROCONNECT – User-friendly input options

Thanks to the integrated **touch display** and our custom-developed **ProConnect web application**, you can easily configure parameters and edit data sets. ProConnect also displays the current values of the welding process as a graph, allowing you to monitor the current welding operation on your PC or mobile device **in real time**.



COMMUNICATION INTERFACES

The generator communicates with the PLC via digital I/O, RS485 or with an **interchangeable module**, enabling virtually any communication protocol, such as **Ethernet/IP, Profibus, Profinet, EtherCAT, DeviceNet, CANopen** and many others. Communication with the PLC is easy to configure and ensured for all devices.



You can find other features as well as options and accessories for the AGM Pro-series ultrasonic welding generators at the end of this brochure.

CANopen DeviceNet

EtherCAT PROFIBUS

EtherNet/IP PROFINET

RS-485

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AGM PRO SERIES

SDG SERIES – Enhanced professionalism








SDG

Generators from the SDG series are compatible with all ultrasonic welding devices from the Easy series and their actuators as well as the ABW series and lots of special actuators, cutters and hand units.

They can be programmed in the dialogue box, have a **robust housing** and are **very reliable**.

SDG generators can be placed in a multitrack to operate up to five modules simultaneously in large systems.

KHZ	Operating frequency:	20 kHz, 30 kHz, 35 kHz, 40 kHz, 70 kHz
	Output power:	2000 W, 1500 W, 1000 W, 900 W, 800 W, 750 W, 500 W, 400 W, 100 W
	Amplitude:	15–100%, can be altered in increments of 1%
	Weight:	9.5 kg
	Display:	2.3", backlit
	Voltage:	230 V AC

COMPATIBLE DEVICES

Compatible with:

- Easy series
- VEA series
- ABW35
- Several special actuators
- Cutters
- Hand units



EASY SERIES



VEA SERIES



ABW35



SPC35



SFC20



HG35-RS

FEATURES

CONTROL OPTIONS

These generators can be controlled digitally or via CANopen or RS485.

QUALITY CONTROL

Ultrasonic generators from the SDG series can be used to set a wide range of **limits** that issue a warning or stop the machine.

FIELDS OF APPLICATION



AUTOMOTIVE



HIGH-TECH



PACKAGING



FOOD



NON-WOVEN & TEXTILE



MEDICAL



HOUSEHOLD



COSMETICS

WELDING
CUTTING
PUNCHING
RIVETING
EMBOSSING
BEADING
INSERTING
DIE-SINKING
SEALING

SDG SERIES

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SDG SERIES – Enhanced professionalism



POWER OVERLOAD

In the event of a power overload, the welding process is cancelled to protect the generator and the oscillator unit.



USER ADMINISTRATION






Multi-level user administration helps to improve quality assurance.

FUNCTIONS

6 WELDING MODES TO CHOOSE FROM

Thanks to the welding modes, you can find the **right setting for every application**, guaranteeing perfect welding.

The following welding modes can be selected on the SDG series:

-  Welding time
- W/S**  Welding energy
-  **W/S** Welding time AND/OR welding energy
-  Contact breaker
-  Continuous



TEST FUNCTION

The TEST button on the generator can be used to trigger the ultrasound in order to check the oscillator unit is working correctly. This function helps you to find the ideal starting frequency for the ultrasonic process after the oscillator unit has been changed.

ADJUSTABLE AMPLITUDE

You can change the value for the internal or external amplitude to between **15 and 100%** in 1% increments so as to achieve the best possible welding or cutting result. An LED bar indicates the power in real time during the welding process.

READING STATUS

Thanks to the LEDs on the user interface, you can always see the current status of the connected hand unit.



SOFTSTART AND SOFTSTOP FUNCTION

This mode gently **augments and attenuates the oscillations** of complex horns to protect them from damage.



TRIGGER (ULTRASONIC TRIGGER POINT)

The welding operation can be initiated using a trigger. You can choose from the following triggers:

- On
- Off
- Time
- Start

You can find other features as well as options and accessories for the SDG-series ultrasonic welding generators at the end of this brochure.

SDG SERIES

MULTIRACK

USE SEVERAL MODULES SIMULTANEOUSLY

In the multirack, several generator modules can be installed and operated at the same time. This saves on space and allows for a well-organised way of working. It holds up to five modules.



MULTIRACK

Unused spaces can be covered with blanking plates.





RDG SERIES – Professional simplicity



RDG

Generators from the RDG series are compatible with lots of special actuators, cutters and hand units.

Their **simple programming** and lack of maintenance requirements set them apart. What's more, they feature a **robust housing** and are **very reliable**.

KHZ	Operating frequency:	20 kHz, 30 kHz, 35 kHz, 40 kHz, 70 kHz
	Output power:	2000 W, 1500 W, 1000 W, 900 W, 800 W, 750 W, 500 W, 400 W, 100 W
	Amplitude:	40–100%, can be altered in increments of 10%
	Weight:	9.5 kg
	Voltage:	230 V AC

COMPATIBLE DEVICES



HW35

Compatible with: Lots of special actuators
Cutters
Hand units



SPC35



SV35-40



SFC20



OSCILLATOR UNIT

MULTIRACK – USE SEVERAL MODULES SIMULTANEOUSLY

In the multirack, several generator modules can be installed and operated at the same time. This saves on space and allows for a well-organised way of working. It holds up to five modules and offers an array of possibilities.



MULTIRACK

Unused spaces can be covered with blanking plates.

FIELDS OF APPLICATION



AUTOMOTIVE



HIGH-TECH



PACKAGING



FOOD



NON-WOVEN & TEXTILE



MEDICAL



HOUSEHOLD



COSMETICS

WELDING
CUTTING
PUNCHING
RIVETING
EMBOSSING
BEADING
INSERTING
DIE-SINKING
SEALING

RDG SERIES – Professional simplicity

FEATURES

SIMPLE INTEGRATION

The generator communicates about status or error messages via the system's own **PLC**.

SIMPLE HANDLING

The generator is easy to programme and operate.



POWER OVERLOAD

In the event of a power overload, the welding process is cancelled to protect the generator and the oscillator unit. A built-in fan also ensures that air is cooled in a controlled manner.



QUALITY CONTROL

An **external part counter** guarantees process reliability.



FUNCTIONS

TEST FUNCTION

The TEST button on the generator can be used to trigger the ultrasound in order to check the oscillator unit is working correctly. This function helps you to find the ideal starting frequency for the ultrasonic process after the oscillator unit has been changed.

ADJUSTABLE AMPLITUDE

You can change the value for the internal and external amplitude to between **40 and 100%** in 10% increments so as to achieve the best possible welding or cutting result. An LED bar indicates the power in real time during the welding process.

READING STATUS

Thanks to the LEDs on the user interface, you can always see the current status of the connected hand unit.

SLOW CONTROL RATE

This function **gently augments the oscillations** of large and complex horns.

WELDING MODE

The RDG series can be operated in continuous mode.



Continuous

STOP FUNCTION

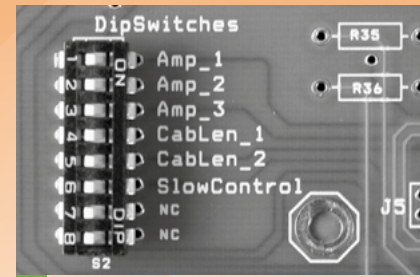
A digital input can be used to activate the function that stops the ultrasonic process.

You can find other features as well as options and accessories for the RDG-series ultrasonic welding generators at the end of this brochure.

RDG SERIES

DIP SWITCHES

You can use the DIP switches inside the generator slide-in module to set the amplitudes, cable length and slow control rate.



DIP SWITCHES

Compact setting function inside the generator

ECOLINE GENERATOR – Lightweight and easy to operate







ECOLINE 35

The Ecoline is our **lightest generator and the easiest one to operate**. It can be used in conjunction with appropriate ultrasonic hand units to carry out simple applications and textile welding operations.

Thanks to the plug-and-play functionality, the generator is ready for operation immediately. In test mode, the right amplitude level can be found initially, then the setting is saved and the unit switches to operation mode.

Status and power LEDs indicate the status of the hand unit and the amount of power currently being used during operation.

KHZ	Operating frequency:	35 kHz
	Output power:	400 W
	Amplitude:	40–100%, can be altered in increments of 10%
	Weight:	3.4 kg
	Voltage:	110 V AC + 230 V AC

COMPATIBLE DEVICES

The Ecoline generator is only available in a set with the following hand units:

Compatible with: HC35 hand cutter
HT35 hand tacker
HG35 hand gun
HW35 hand welding unit



HC35



HT35



HG35-EC



HW35

FEATURES



PLUG AND PLAY

The Ecoline generator works using plug and play. Simply connect the cable and get to work. The generator will be **ready for operation immediately.**



AIR COOLING

At higher than usual loads, the horns may require cooling. A port has already been built onto the generator. A compressed air line has been integrated into the cable of the hand units.

FIELDS OF APPLICATION



AUTOMOTIVE



HIGH-TECH



PACKAGING



FOOD



NON-WOVEN & TEXTILE



MEDICAL



HOUSEHOLD



COSMETICS

**WELDING
CUTTING
RIVETING
EMBOSSING
BEADING
DIE-SINKING
SEALING**

ECOLINE GENERATOR – Lightweight and easy to operate

SMALL AND HANDY

Thanks to its **small but robust construction**, the Ecoline fits on every workbench. It can be transported safely using the handle on the generator or its practical carrying case.

DIFFERENT CABLE LENGTHS

Different cable lengths are available for the hand units.

This means that the workstation can be designed flexibly.

FUNCTIONS

WELDING MODE

For a **simple welding process**, the Ecoline generator can be operated in continuous mode and controlled via a button.



Continuous

ADJUSTABLE AMPLITUDE

The oscillation width is set using the amplitude button. You can change the value for the amplitude to between **40 and 100%** in 10% increments so as to achieve the best possible welding or cutting result. An LED bar indicates the power in real time during the welding process.



TEST FUNCTION

The TEST button on the generator can be used to trigger the ultrasound in order to check the oscillator unit is working correctly.

STATUS ALWAYS VISIBLE

Thanks to the LEDs on the user interface, you can always see the current status of the connected hand unit.

ECOLINE CARRYING CASE – Stow and transport with ease

The lightweight carrying case is ideal for storing and easily transporting ultrasonic equipment. Every time you buy a hand unit with an Ecoline generator, you will also get this carrying case. The service tool for the hand unit is also included.

ECOLINE CARRYING CASE 
including service tool





































You can find other features as well as options and accessories for the Ecoline ultrasonic generator at the end of this brochure.





ECOLINE

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COMPARISON TABLE

		XDG/SCU	ADG	AGM Pro	SDG	RDG	Ecoline
							
	Compatible devices	Electrical Motion series VEM series	Standard series VST series Several actuators SFC20	Several cutters and special actuators	Easy series VEA series ABW35 Several special actuators Cutters Hand units	Lots of special actuators Cutters Hand units	HC35 hand cutter HT35 hand tacker HG35 hand gun HW35 hand welding unit
KHZ	Frequency (kHz)	20, 35	20, 30, 35, 70	20, 30, 35, 40, 70	20, 30, 35, 40, 70	20, 30, 35, 40, 70	35
	Output power (W)	3000, 2000, 900	3000, 2000, 1500, 1000, 900, 600, 400, 100	3000, 2000, 1500, 1000, 900, 800, 750, 500, 400, 100	2000, 1500, 1000, 900, 800, 750, 500, 400, 100	2000, 1500, 1000, 900, 800, 750, 500, 400, 100	400
	Dimensions W x D x H (mm)	363 x 374 x 352	205 x 340 x 345	128 x 148 x 307	148 x 424 x 282	148 x 424 x 282	191 x 282 x 102
	Weight	16 + 9 kg	16 kg (ADG 70: 12.5 kg)	4 kg	9.5 kg	9.5 kg	3.4 kg
	2-year guarantee	3 years	✓	✓	✓	✓	✓
	Air cooling	✓	✓	✓	✓	✓	✓
	Amplitude adjustment	40–100%, 1% increments/external	40–100%, 1% increments/external	15–100%, 1% increments/external	15–100%, 1% increments/external	40–100%, 10% increments/external	40–100%, 10% increments
	Audit trail	✓					
	Calibration	Force, amplitude	Amplitude, power	Amplitude, power	Amplitude, power	Amplitude, power	Amplitude, power
	Cleanroom, ISO class 6	✓	✓				
	Constant amplitude	✓	✓	✓	✓	✓	✓
	Time mode	✓	✓	✓	✓		
W/S	Energy mode	✓	✓	✓	✓		
	Travel mode	✓	✓				
	Continuous mode			✓	✓	✓	✓
	Contact breaker (mode)	✓	✓	✓	✓		
	Melting rate (mode)	✓					
	Trigger point	Time, travel, force, off, external signal, travel absolute & force	Time, travel, pressure, off, external signal		On, off, time, start		
	Data transmission	✓	✓	✓	✓		
	Database	✓	✓	✓			
	Associated software			Web application			
	Digital technology	✓	✓	✓	✓	✓	✓
	Multilingual	✓	✓	✓	✓		
	Protection against power overload	✓	✓	✓	✓	✓	✓
	Protection against overheating	✓	✓	✓	✓	✓	✓
	Part counter	✓	✓		External	External	
	Plug and play					✓	✓
	Remote access	Internal, external		Internal, external			
	Softstart, softstop for complex horns	✓	✓	✓	✓	✓	
	Touch display	✓		✓			
	Multi-level user administration	✓	✓	✓	✓		

OPTIONS AND ACCESSORIES

	XDG/SCU	ADG	AGM Pro	SDG	RDG	Ecoline
						
RS232 cable	✓	✓				
RJ45 connection cable	✓		✓			
Safety relay		✓				
Contact breaker with power supply unit		✓				
Contact breaker RS housing	✓			✓	✓	
Mains filter			✓			
SDG trigger box				✓		
Tool case for 35 kHz hand units				✓	✓	✓
HC35 spanner set				✓	✓	✓
Communication modules			✓			
HF switch box for hand units				✓	✓	
HF switch box				✓	✓	✓

RS232 cable



For exporting data.

RJ45 connection cable



For integrating Ethernet.

Safety relay



To convert an automated machine into a standard machine.

Contact breaker with power supply unit



Contact breaker equipment for ADG generators.

Contact breaker RS housing



Contact breaker equipment for RDG and SDG generators.

Mains filter



For special machines.

SDG trigger box



For activating the trigger.

Tool case for 35 kHz hand units



Lightweight and practical carrying case for tools.

HC35 spanner set



Lightweight and practical carrying case for the spanner set.

Communication modules



6 certified interchangeable fieldbus modules:

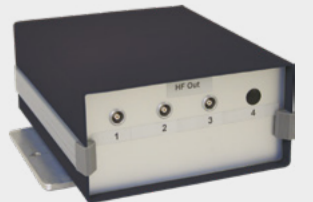
- EtherNet/IP
- Profibus
- Profinet
- EtherCAT
- DeviceNet
- CANopen

Device switch box for hand units

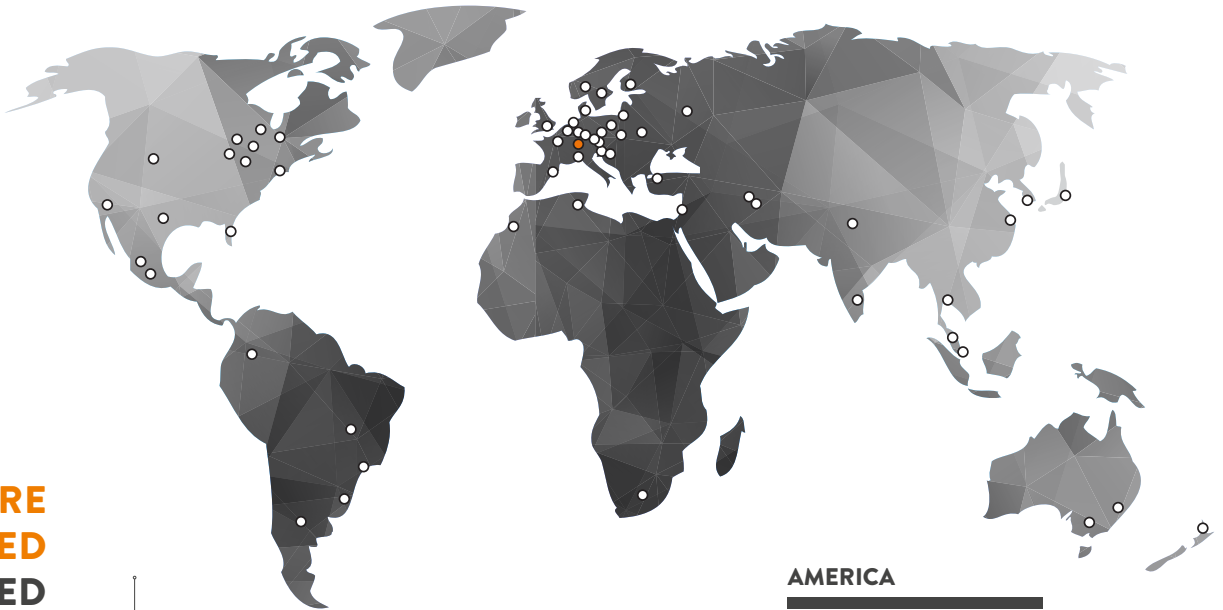


For easily switching from one hand unit to another hand unit with the same generator.

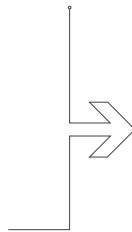
HF switch box



For distributing an HF signal from a single generator to multiple oscillator units.



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