

Ultrasonic generators

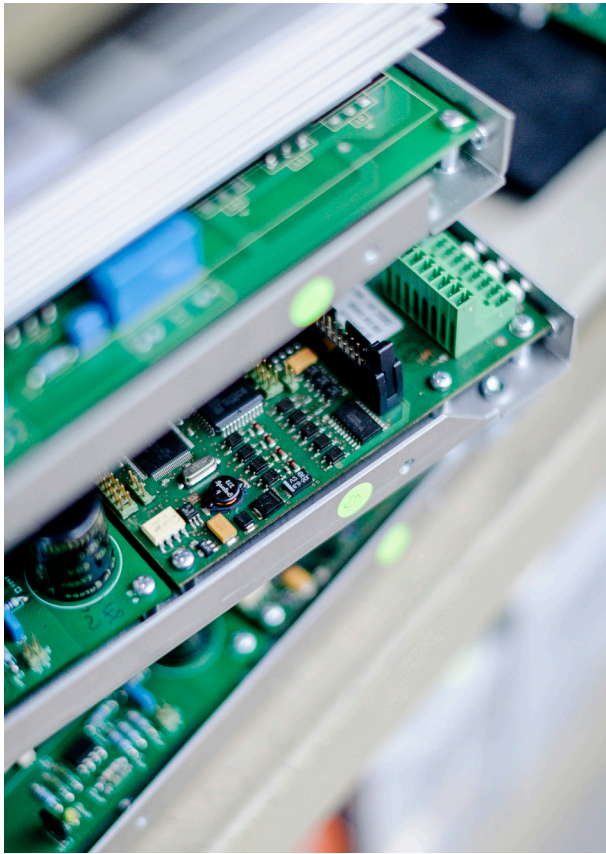
SDG Series



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 7 product series:

XDG2 SERIES
ADG SERIES
AGM PRO SERIES
AGM2 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.

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 multirack 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, 200 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



EASY SERIES



VEA SERIES



ABW35



SPC35



SFC20



HG35-RS

COMPATIBLE DEVICES

Compatible with:

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

FIELDS OF APPLICATION



AUTOMOTIVE



HIGH-TECH



PACKAGING



FOOD



NON-WOVEN & TEXTILE



MEDICAL



HOUSEHOLD



COSMETICS

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.

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

SDG SERIES

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



POWER BAR

Indicates the power delivered during the welding process.

STATUS LEDS

Green = ultrasound ready
Yellow = ultrasound active
Red = error



PIN BUTTON

For entering the access code

TEST BUTTON

NAVIGATION BUTTONS

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.

		XDG2 / SCU2	ADG	AGM Pro	AGM2	SDG	RDG	Ecoline
								
	Compatible devices	Electrical Motion2 series VEM2 series	Standard series VST series Several actuators SFC20	Several cutters and special actuators	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	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	3000, 2000, 1500, 1000, 900, 800, 750, 500, 400, 100	2000, 1500, 1000, 900, 800, 750, 500, 400, 200, 100	2000, 1500, 1000, 900, 800, 750, 500, 400, 200, 100	400
	Dimensions W x D x H (mm)	363 x 374 x 352	205 x 340 x 345	128 x 148 x 307	95 x 231 x 393	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	3 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	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	Amplitude, power
	Cleanroom, ISO class 6	✓	✓					
	Constant amplitude	✓	✓	✓	✓	✓	✓	✓
	Time mode	✓	✓	✓	✓	✓		
W/S	Energy mode	✓	✓	✓	✓	✓		
	Travel mode	✓	✓					
	Continuous mode			✓	✓	✓	✓	✓
	Contact breaker (mode)	✓	✓	✓	✓	✓		
	Multi Melt Control (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	Web application			
	Digital technology	✓	✓	✓	✓	✓	✓	✓
	Multilingual	✓	✓	✓	English	✓		
	Protection against power overload	✓	✓	✓	✓	✓	✓	✓
	Protection against overheating	✓	✓	✓	✓	✓	✓	✓
	Part counter	✓	✓			External	External	
	Plug and play						✓	✓
	Remote access	Internal, external		Internal, external	Internal, external			
	Softstart, softstop for complex horns	✓	✓	✓	✓	✓	✓	
	Touch display	✓		✓				
	User administration	Individual per user	✓	✓	✓	✓		

OPTIONS AND ACCESSORIES

	XDG2 / SCU2	ADG	AGM Pro	AGM2	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	PROFINET		✓	✓			
HF switch box for hand units					✓	✓	
HF switch box					✓	✓	✓

RS232 cable



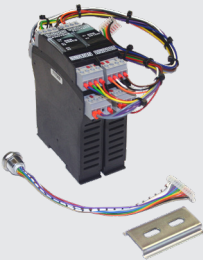
For exporting data.

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

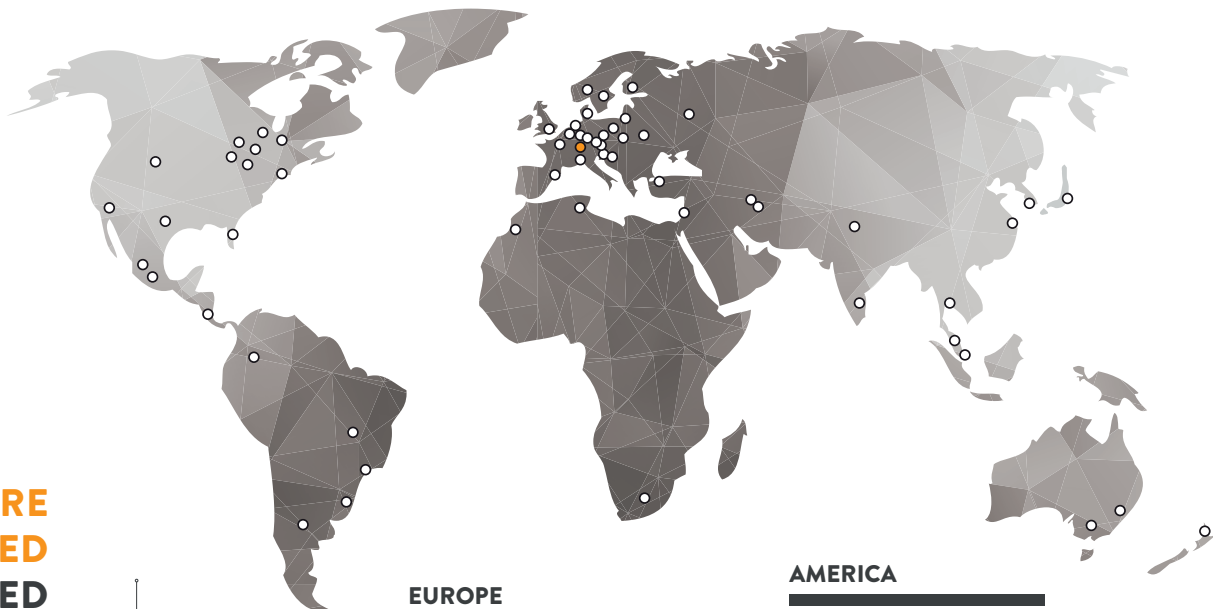


For easily switching from one hand unit to another hand unit with the same generator.

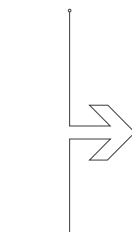
HF switch box



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



**WE ARE
FOCUSED
COMMITTED
GLOBAL
LOCAL**



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