

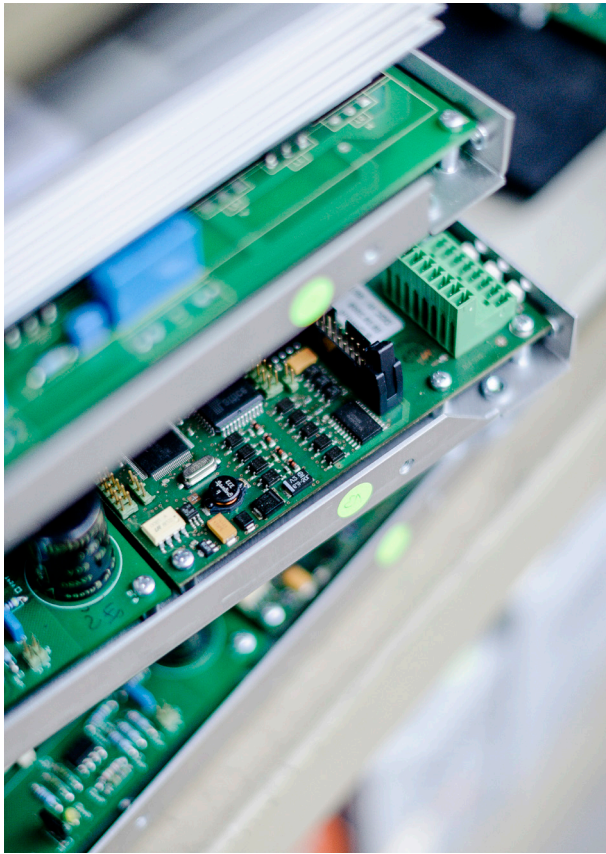
Ultrasonic generators
XDG2/SCU2 Series



 **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.

XDG2 SERIES – Top of the range



SCU2 with XDG2

KHZ Operating frequency: 20 kHz, 35 kHz



Output power: 3000 W, 2000 W, 900 W



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



Weight: XDG2 10.5 kg
SCU2 9.5 kg



Voltage: 230 V AC



Ultrasonic generators from the XDG2 series are compatible with ultrasonic welding machines from the Electrical Motion2 series and are also suitable for operating VEM2 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 XDG2 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.



COMPATIBLE DEVICES

Compatible with: Electrical Motion2 series
VEM2 series



ELECTRICAL MOTION2 SERIES



VEM2 SERIES

FEATURES



MAXIMUM REPEATABILITY

The database for the ultrasonic welding machines can store **as many parameter data sets** as required. **Welding data can also be saved on the internal hard drive, in the Ethernet/company network or on an external storage medium, or read out via PROFINET.**



USER ADMINISTRATION

Authorisations can be assigned **according to the menu**. Predefined user profiles can be **customised** for each user.



INCREASE PROCESS RELIABILITY

A **part counter** and a **reject counter** are integrated into all ultrasonic generators from the XDG2 series, along with a **setpoint part counter**.

INTERFACES

The XDG2 boasts the following interfaces:

- 1 USB port 3.0
- 4 USB ports 2.0
- 20 digital inputs
- 20 digital outputs, 3 of which are freely programmable
- 1 analogue input
- 1 analogue output
- 2 Ethernet ports
- 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**

XDG2 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 Motion2 series:



Welding time

W/S

Welding energy



W/S

Welding time AND/OR welding energy



Welding travel (absolute or differential)



Contact breaker



Multi Melt Control

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.



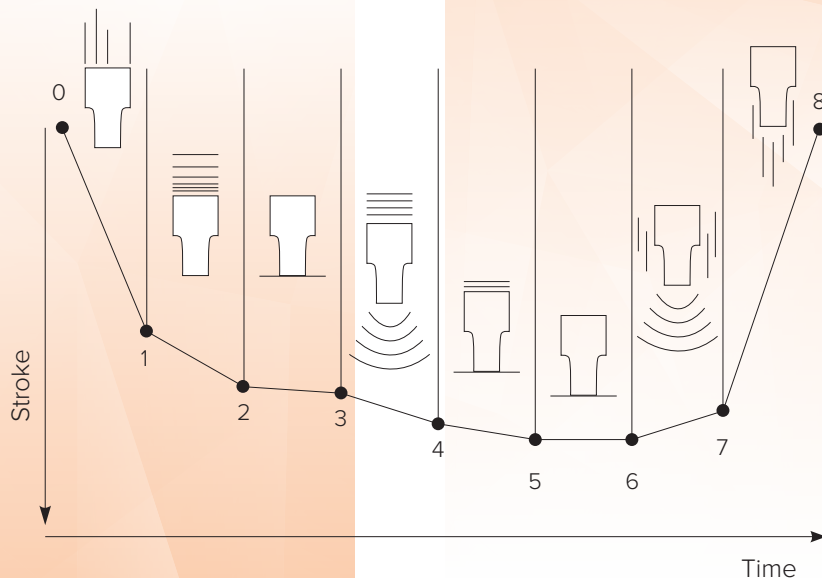
DATA EXPORT

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. There is also the option to read out the data via **PROFINET**.

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 Force buildup without ultrasonics
- 5–6 Firming up and cooling-down phase
- 6–7 Afterpulse with ultrasonics
- 7–8 Actuator moves back



You can find other features as well as options and accessories for the XDG2-series ultrasonic welding generators at the end of this brochure.

MULTILINGUAL

OPERATE THE GENERATOR IN YOUR LANGUAGE

The software for the XDG2-series ultrasonic generators is available in lots of different languages.



		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



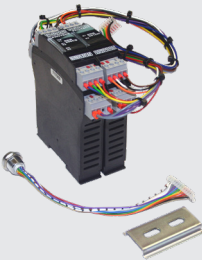
For exporting data.

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

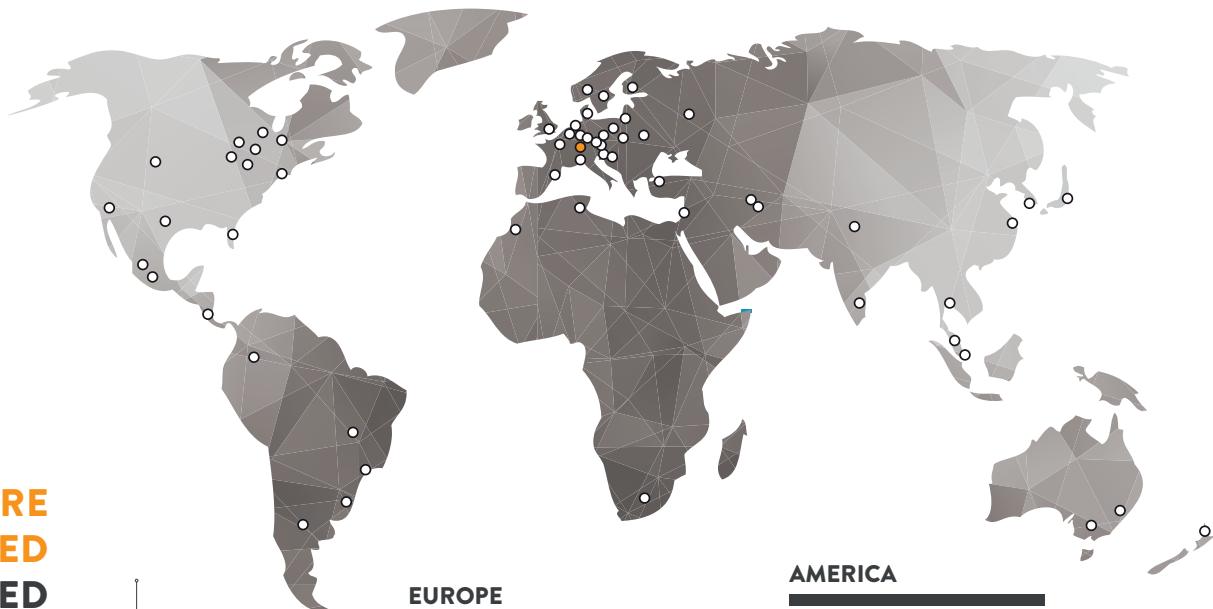


For easily switching from one hand unit to another hand unit with the same generator.

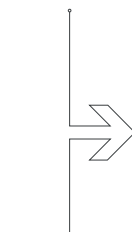
HF switch box



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



**WE ARE
FOCUSED
COMMITTED
GLOBAL
LOCAL**



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rincoultrasonics.com.my

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MOROCCO

rincoultrasonics.com



CONTACT US FOR MORE INFORMATION

rincoultrasonics.com
info@rincoultrasonics.com
+41 71 466 41 00

Industriestrasse 4
CH-8590 Romanshorn
Switzerland



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SINCE 1976