

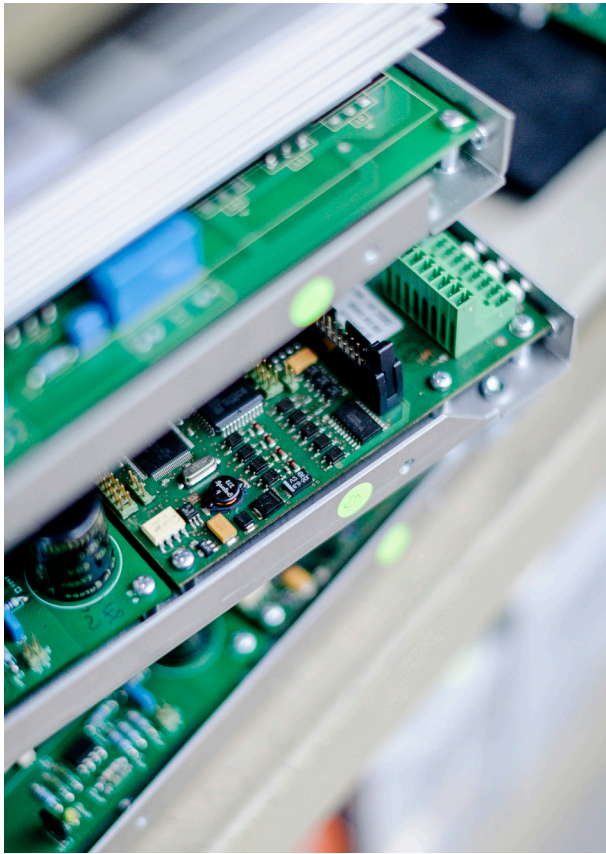
Ultrasonic generators **ADG Series**



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**.

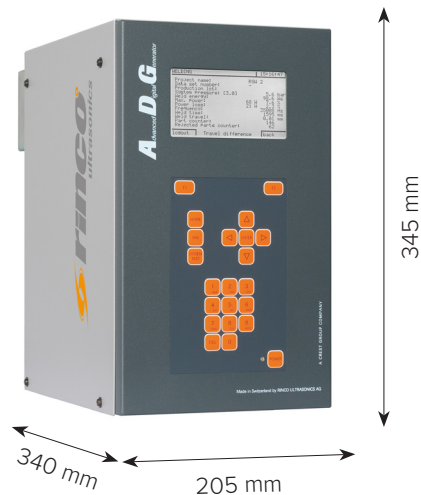


EFFICIENT RINCO
AFTER SALES SERVICE

AFTER-SALES SERVICE

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

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



STANDARD SERIES

COMPATIBLE DEVICES

Compatible with:

Standard series
VST series
Several special actuators
SFC20



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:	35000	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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		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	✓	✓	✓	✓		


	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



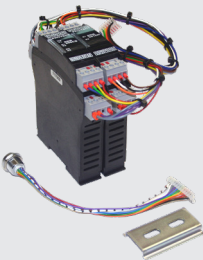
For exporting data.

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

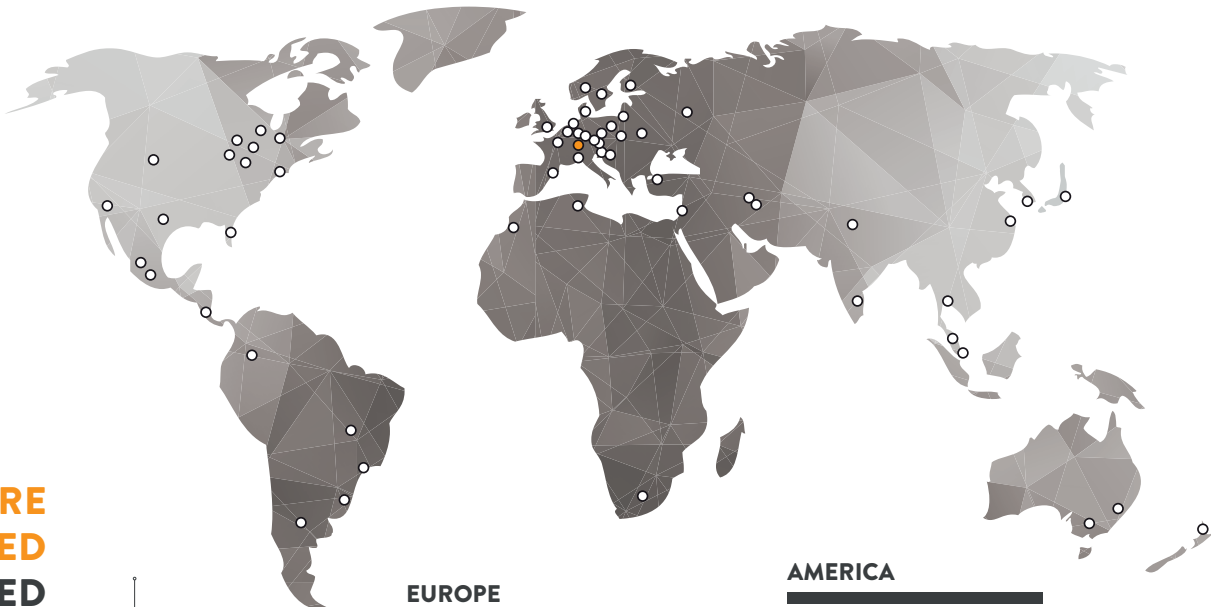


For easily switching from one hand unit to another hand unit with the same generator.

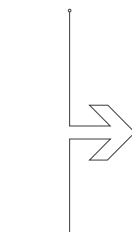
HF switch box



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



**WE ARE
FOCUSED
COMMITTED
GLOBAL
LOCAL**



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