

# ULTRASONIC GENERATORS

The communication professional  
Power is nothing without control.

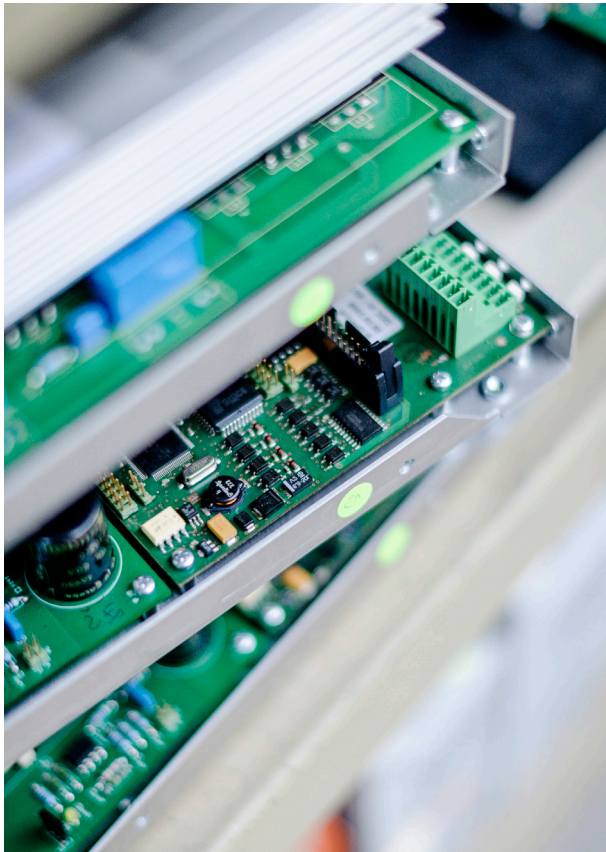
*pro*  
**agm**



**rinco**<sup>®</sup>  
ultrasonics

AROUND YOU EVERY DAY

# ***RINCO ultrasonic generators***



## **ULTRASONIC GENERATORS – EVERYTHING UNDER CONTROL, ALWAYS**

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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

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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.

# 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 VAC / 24 VDC



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.

## INTERCHANGEABLE MODULES

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

## 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.

## OTHER COMMUNICATION INTERFACES

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

## 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.



## PROCONNECT

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

*pro*  
**connect**

## DIGITAL ERROR CODING

Facilitates 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**

**AGM PRO SERIES**

**rinco**  
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



**W/S**

Welding time AND/OR welding energy



Contact breaker



Continuous



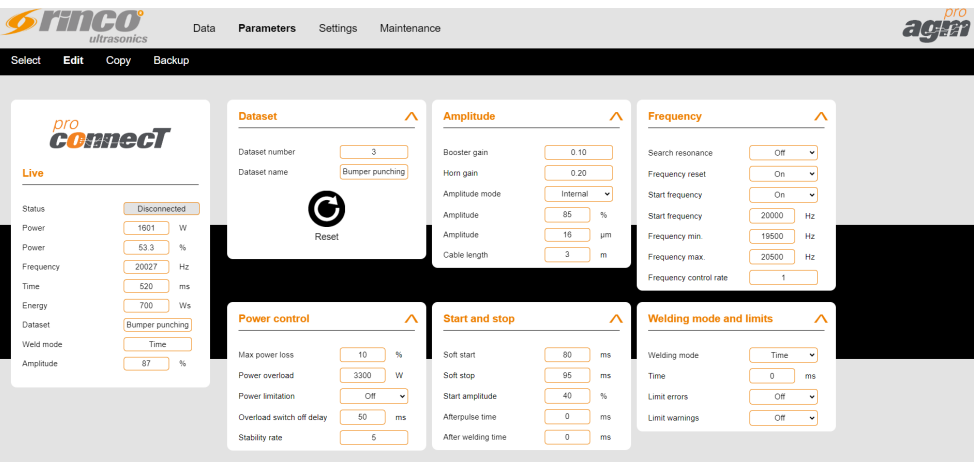
**3.5" TOUCH DISPLAY**  
Shows the current status.



**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**.

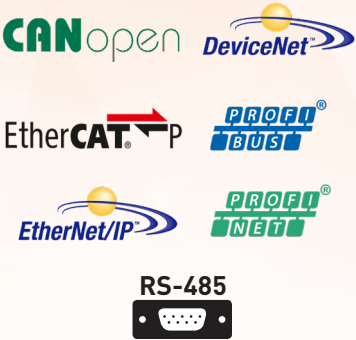






































## COMMUNICATION INTERFACES

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.




|   |                                       | XDG2 / SCU2   | ADG  | AGM Pro   | AGM2  | SDG  | RDG   | Ecoline   |
|---|---------------------------------------|---|--|---|---|--|---|---|
|   |                                       |  |  |  |  |       |  |  |
|   | Compatible devices                    | Electrical Motion2 series<br>VEM2 series  | Standard series<br>VST series<br>Several actuators<br>SFC20                        | Several cutters and<br>special actuators  | Several cutters and<br>special actuators  | Easy series<br>VEA series<br>ABW35<br>Several special actuators<br>Cutters<br>Hand units | Lots of special actuators<br>Cutters<br>Hand units                                  | HC35 hand cutter<br>HT35 hand tacker<br>HG35 hand gun<br>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<br>(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<br>signal, travel absolute & force             | Time, travel, pressure, off, external<br>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

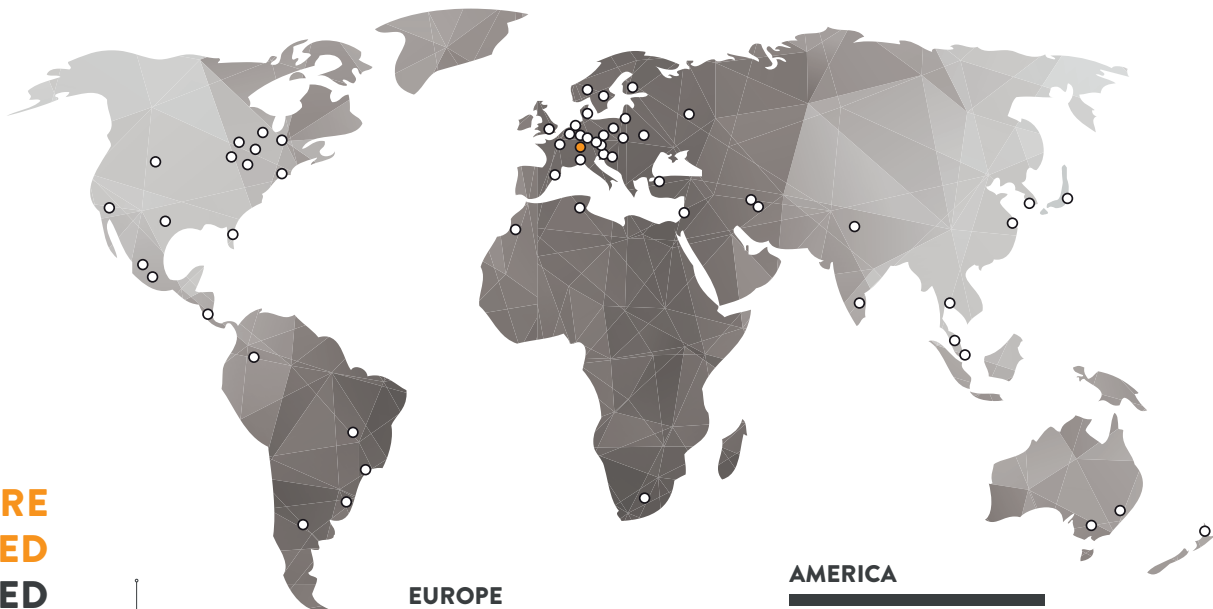


For easily switching from one hand unit to another hand unit with the same generator.

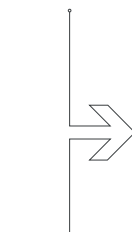
HF switch box



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



**WE ARE  
FOCUSED  
COMMITTED  
GLOBAL  
LOCAL**



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