

ULTRASONIC WELDING & CUTTING TECHNOLOGY



PRODUCT
OVERVIEW

OEM SOLUTIONS

 **rinco**[®]
ultrasonics

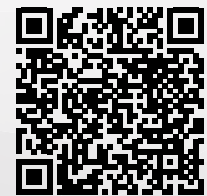
AROUND YOU EVERY DAY

ACTUATORS

The ultrasonic actuators are ideal for **installation in special-purpose machines, automated welding systems and automated lines.**

The high-quality units are available in different power classes and operating frequencies. They are suitable for sealing packaging, punching and cutting technical textiles and non-wovens or welding thermoplastic moulded parts.

- Optimal results thanks to:
- Very high welding quality
 - Very precise adjustable parameters



SCAN AND LEARN ALL THE DETAILS ABOUT THE ACTUATORS

GENERATORS

RINCO ultrasonic generators offer complete control for every application – from controlling manual units and ultrasonic welding machines to precisely triggering the ultrasonics in automated lines or specialised systems. The generators are intuitive to program 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.



SCAN AND LEARN ALL THE DETAILS ABOUT THE GENERATORS

TOOLS

Our high-quality converters, boosters, anvils and horns are available in different frequencies. This allows you to tailor your ultrasonic unit precisely to your requirements. Whether you need standard tasks or special applications, our components can be flexibly combined so that you always find the perfect solution.



SCAN AND LEARN ALL THE DETAILS ABOUT THE TOOLS

STANDARD ACTUATORS



YEM2 SERIES

Operating frequency **20 / 35 kHz**
Max. force **3000 / 745 N**
Max. stroke **100 mm**
Drive **Electric**

VST SERIES

Operating frequency **20 / 35 kHz**
Max. force **3000 / 745 N**
Max. stroke **100 / 100 mm**
Drive **Pneumatic**

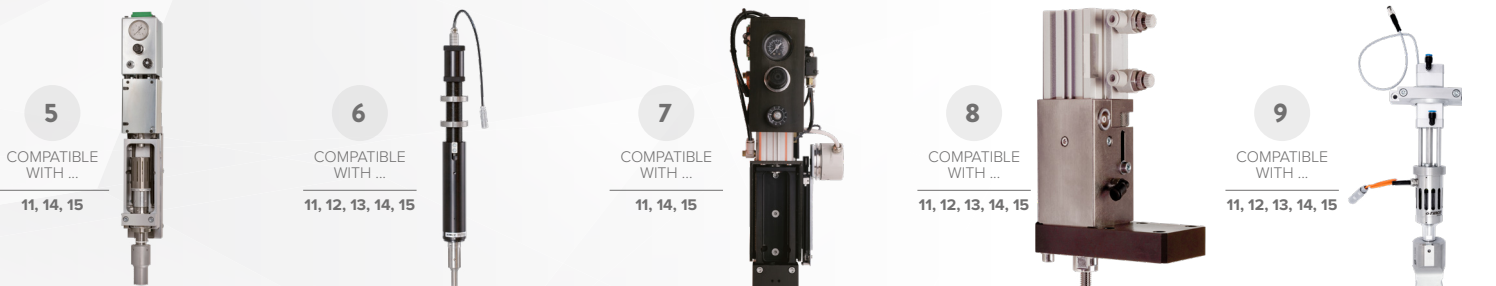
VST 50

Operating frequency **70 kHz**
Max. force **50 N**
Max. stroke **25 mm**
Drive **Pneumatic**

VEA SERIES

Operating frequency **20 / 35 kHz**
Max. force **3000 / 745 N**
Max. stroke **100 mm**
Drive **Pneumatic**

SPECIAL ACTUATORS



SPA20 SERIES

Operating frequency **20 kHz**
Max. force **2000 N**
Max. stroke **100 mm**
Drive **Pneumatic**

SPC35 SERIES

Operating frequency **35 kHz**
Spring load **242 N**
Compression stroke **8 mm**
Drive **Mechanical spring-loading**

SV35-50/100 SERIES

Operating frequency **35 kHz**
Max. force **745 N**
Max. stroke **50 / 100 mm**
Drive **Pneumatic**

MA35-20 SERIES

Operating frequency **35 kHz**
Max. force **450 N**
Max. stroke **20 mm**
Drive **Pneumatic**

MA35-50 SERIES

Operating frequency **35 kHz**
Max. force **295 N**
Max. stroke **50 mm**
Drive **Pneumatic**



CUSTOMISED SOLUTIONS FOR MAXIMUM EFFICIENCY

At RINCO ULTRASONICS, we develop individualised ultrasonic components that are precisely tailored to your processes – from single ultrasonic welding stations to fully automated production lines.

Our many years of experience in ultrasonic technology and close cooperation with our customers allow us to create high-precision, reliable and economical systems.

Your advantages at a glance:

- Customised systems for specific requirements
- Fully automated processes for maximum efficiency
- Integration of state-of-the-art ultrasonic technology
- Highest quality and safety standards

Whether you need a compact special-purpose machine or a complex automated line, we develop and supply the right components for you. Your plant engineer puts the turnkey system into operation.



GENERATORS

Our generators are designed for flexible integration into distribution cabinets and automation systems.



SYSTEM INTEGRATION

Seamless integration into existing plant and control systems.



OSCILLATOR SYSTEM

For precise and reliable ultrasonic applications.



MODULARITY OF ULTRASONIC COMPONENTS



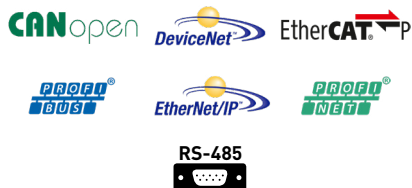
FLEXIBLE ADJUSTMENT

Our modular components can be quickly adapted to different applications and production environments.



TIME AND COST SAVINGS

The modular design reduces downtime and significantly lowers maintenance costs.



COMMUNICATION

Interchangeable modules for easy integration into our system with our certified* fieldbus interfaces:

- PROFINET* (ADG / XDG2)
- PROFIBUS*
- DeviceNet*
- EtherNet/IP*
- EtherCat*
- CANOpen*
- RS-485

The AGM Pro and AGM2 generators can be integrated using all these communication modules.

SERVICE

We support you starting in the planning phase to ensure the optimal design of your welding application – from a stable machine base to correct positioning of the ultrasonic components. We also assist you during integration with tool engineering, FEM analyses and 3D dummies for visualisation.

Our Ultrasonic Competence Center offers:

- Test tooling & configuration
- Support with setup & PLC connection
- Remote support for technical questions

Even after start-up, we continue to support you with international after-sales service, fast response times and thoughtful support. All components comply with recognised standards such as CE, EMC and ISO – for tested quality and safety.



COME AND DISCOVER THE OUTSTANDING QUALITY OF RINCO PRODUCTS FOR YOURSELF

RELIABLE

RINCO products operate very **reliably** and have a **long service life**.

SAVE TIME

Our products are practically **maintenance-free**.

GLOBAL SERVICE

Our **global network** is always on hand should your equipment ever require servicing. Our employees and partners are available to provide you with comprehensive on-site support before, during and after purchase. Here at RINCO, you can expect first-class service.

We would be delighted to assist you should you require further information.

Contact us at:
info@rincoultrasonics.com or
+41 (0)71 466 41 00.



Ultrasonic hand welding units

Manual work is still synonymous with the highest quality.

With RINCO ULTRASONICS, it will stay that way:

Our ultrasonic hand welding units allow you to achieve perfect results by hand. Depending on the requirements, they are available as tackers, guns or hand welding units – ideal for welding, cutting, sealing and more.

17

COMPATIBLE
WITH ...

14, 15



18

COMPATIBLE
WITH ...

14, 15, 26



19

COMPATIBLE
WITH ...

14, 15, 26



HG20-1

Operating frequency **20 kHz**

Weight **1.8 kg** including transducer

- Ideal for spot welding, riveting and beading
- Sturdy design for optimal ultrasound transmission
- Very high performance

HG35-EC / HG35-RS

Operating frequency **35 kHz**

Weight **0.6 kg** including converter

- Ideal for spot welding, riveting, beading and cutting with template horns
- Sturdy design for optimal ultrasound transmission
- Protected cable guide
- Integrated air cooling
- Housing made of reinforced plastic
- Ergonomic

HW35

Operating frequency **35 kHz**

Weight **0.7 kg** including transducer

- Ideal for spot welding, riveting, beading and cutting with template horns
- Sturdy design for optimal ultrasound transmission
- Protected cable guide



SCAN AND LEARN ALL THE
DETAILS ABOUT THE HAND
WELDING UNITS

Ultrasonic cutting devices

The sturdy ultrasonic cutting devices from RINCO ULTRASONICS set new standards in the processing of textiles, back-injected plastic parts and films. They cut and seal fabric edges with maximum precision, work extremely quickly and are nearly maintenance-free. Our hand-held cutting units also make variable cuts and complex contours possible. We also offer the right solutions for cutting and portioning food items. Thanks to the use of ultrasonics, the blades slide effortlessly through food products without leaving residues on the blade or deforming the product.

20

COMPATIBLE WITH ...

12, 13, 14, 15



21

COMPATIBLE WITH ...

12, 13, 14, 15



22

COMPATIBLE WITH ...

11, 12, 13, 14, 15



CH35-4

Operating frequency **35 kHz**

Weight **1.4 kg** including transducer

- Designed for integration into cutting machines and weaving machines
- Pressurized air cooling can be retrofitted as an option
- Ideal for continuous cutting

SFC20

Operating frequency **20 kHz**

Weight **4 kg**

- Ideal for automated cutting and portioning of food
- IP69 / Stainless steel housing
- Built to last

SV35-40

Operating frequency **35 kHz**

Max. stroke **40 mm**

Weight **3 kg** including oscillator system

- Designed for integration into cutting machines and weaving machines
- Pressurized air cooling can be retrofitted as an option
- Ideal for continuous cutting
- Available in left- or right-hand versions

CUTTING HORNS

Frequency **20 / 30 / 35 / 40 / 70 kHz**

- Cutting electrodes from RINCO impress with long-lasting performance and enable clean, efficient cuts even with challenging materials
- Available with various surface coatings



BOOSTER TERMINAL

- For secure and precise fastening of the booster
- Ensures stable energy transfer
- Supports reliable and reproducible processes



SCAN AND LEARN ALL THE DETAILS ABOUT THE HAND CUTTERS

Accessories

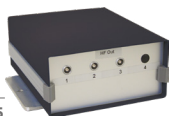
The right accessories make all the difference. At RINCO ULTRASONICS, accessories do not take a back seat, but are essential components of a functioning overall system. Our components integrate seamlessly into existing systems and are the optimum complement to your ultrasonic applications.

They ensure greater flexibility, improved operation and increased process reliability. Well-thought-out structure, sturdy construction and easy handling allow you to focus on what matters most – your productivity. Individualised requirements can be handled just as precisely as changing production conditions. Since all accessories are perfectly matched to our systems, integration is smooth – for consistently reliable processes.

25

COMPATIBLE
WITH ...

11, 12, 13, 14, 15



HF SWITCH BOX

Operating frequency **20 / 35 / 70 kHz**

- For distributing an HF signal from a generator to multiple oscillator systems

26

COMPATIBLE
WITH ...

14, 15, 18, 19



RDG/SDG HAND UNIT SWITCH BOX

Operating frequency **35 kHz**

- For easily switching from one hand unit to another hand unit with the same generator.
- Compatible with RDG and SDG generators with a frequency of 35 kHz

27

COMPATIBLE
WITH ...

11



ADG DEVICE SWITCH BOX

Operating frequency **20 / 35 / 70 kHz**

- For small multi-head specialised systems if no higher-level control is required or if PLC is to be kept to a minimum

28

COMPATIBLE
WITH ...

1, 10



VEM2 BARCODE SCANNER

Cable length **1.0 m**

Interface **1 USB 2.0**

- Barcode scanner for scanning the part number (code) of a product before welding, in order to link the welding result to a part number

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COMPATIBLE
WITH ...

1, 2, 4



FOIL TRANSPORT SET

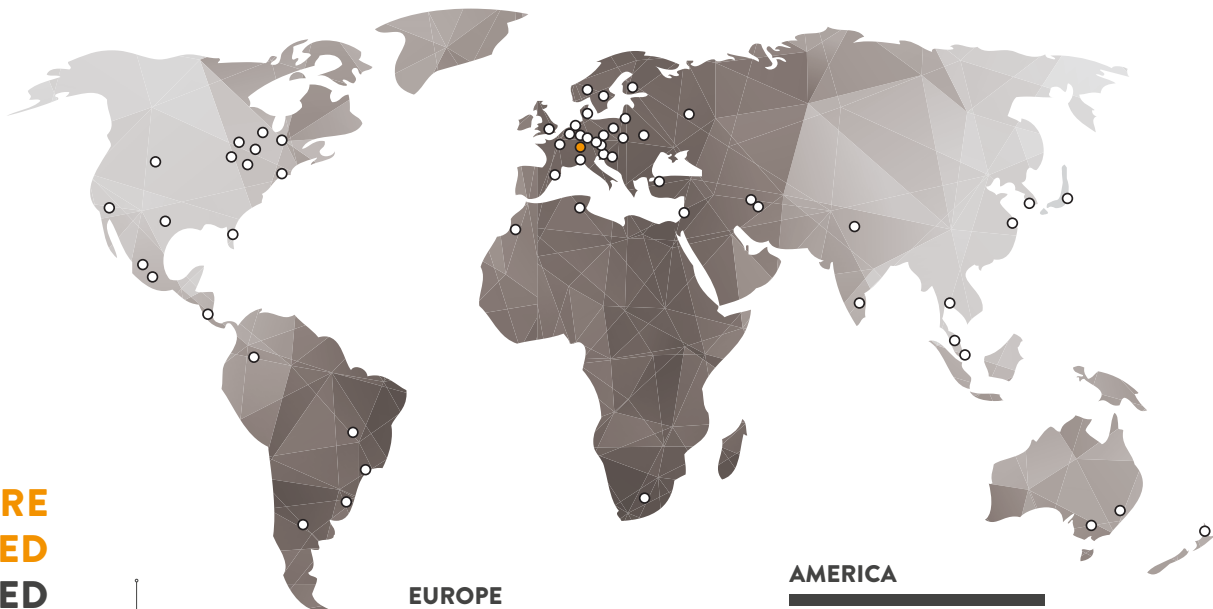
Feed rate **0.1 m/s**

Feed path **5-500 mm**

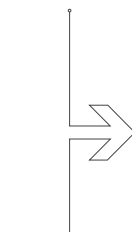
- Width up to 150 mm
- Core 25 mm or 75 mm
- To protect the component surfaces from marks



NOT SURE WHICH ACCESSORIES
ARE RIGHT FOR YOUR
APPLICATION?
OUR EXPERTS WOULD BE
HAPPY TO OFFER YOU
PERSONALISED CONSULTATION.



**WE ARE
FOCUSED
COMMITTED
GLOBAL
LOCAL**



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MALAYSIA

rincoultrasonics.com.my

AFRICA

MOROCCO

rincoultrasonics.com



CONTACT US FOR MORE INFORMATION

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

Industriestrasse 4
CH-8590 Romanshorn
Switzerland