

ULTRASONIC WELDING & CUTTING TECHNOLOGY

PRODUCT
COLLEC-
TION
INSIDE



 **rinco**[®]
ultrasonics

AROUND YOU EVERY DAY

A man with glasses and a grey hoodie stands in a factory or industrial setting. He is looking towards the right. In the background, there is a large piece of machinery with a '40' logo and the word 'MIZ' partially visible. The scene is brightly lit, suggesting an indoor industrial environment.

RINCO ULTRASONICS
has developed and
built machines and
generators as well as
components and tools
for ultrasonic solutions to
high standards of quality
and precision since the
company was established
in 1976.

RINCO ULTRASONICS
provides customised
solutions in situations
where high efficiency and
precision, rapid process
speeds, reproducibility and
manageable investment
costs are required.

We also channel our
years of experience into
developing new and
innovative products and
ensure our customers
always receive the
optimum solution for their
requirements. Furthermore,
our company is certified
to ISO 9001, ISO 13485
and ISO 14001 and can
be relied upon for high
quality standards as well
as quality assurance and
expert project execution,
also in the field of medical
engineering.

**WE
ARE
EX
PERTS**

PRODUCT COLLECTION

Swiss technology

ULTRASONIC WELDING & CUTTING TECHNOLOGY



WELDING MACHINES



ELECTRICAL MOTION 20

Operating frequency **20 kHz**
Max. force **3000 N**
Weight c.a. **130 kg**

- Electrically driven
- Audit trail function
- Very high welding quality
- Remote control access
- Easy to handle

ELECTRICAL MOTION 35

Operating frequency **35 kHz**
Max. force **750 N**
Weight c.a. **53 kg**

- Electrically driven
- Audit trail function
- Very high welding quality
- Remote control access
- Easy to handle

STANDARD 3000

Operating frequency **20 kHz**
Max. force **3000 N**
Weight **115 kg**

- Can be housed in sound enclosures SSK
- Repeatable welding force
- Simple tool change and quick setup
- Integrated travel measurement
- High process reliability
- Cleanroom version available

STANDARD 745

Operating frequency **35 kHz**
Max. force **745 N**
Weight **41 kg**

- Repeatable welding force
- Simple tool change and quick setup
- Integrated travel measurement
- High process reliability
- Cleanroom version available

STANDARD 50

Operating frequency **70 kHz**
Max. force **50 N**
Weight **13.2 kg**

- Repeatable welding force
- Modular construction
- Simple tool change and quick setup
- High process reliability
- With precision pressure regulator

EASY 3000

Operating frequency **20 kHz**
Max. force **3000 N**
Weight **115 kg**

- High process reliability
- Repeatable welding force
- Simple tool change and quick setup
- The actuator VEA is suitable for integration into special purpose machines

EASY 745

Operating frequency **35 kHz**
Max. force **745 N**
Weight **41 kg**

- High process reliability
- Repeatable welding force
- Simple tool change and quick setup
- The actuator VEA is suitable for integration into special purpose machines

ABW35

Operating frequency **35 kHz**
Max. force **745 N**
Weight **11 kg**

- Designed for the packaging industry
- Short cycles thanks to integrated microswitch
- Various standard tools available
- Can be placed on table or mounted to wall

GENERATORS



XDG

Operating frequency **35/20 kHz**
Max. power output **2000/3000 W**
Weight **16 kg**

- Audit trail
- Data export
- Multi-level user administration
- Remote maintenance
- 8 welding modes to choose from

ADG

Operating frequency **70/35/30/20 kHz**
Max. power output **100/400/600/900/1000/1500/2000/3000 W**
Weight **16 kg**

- User-friendly menu navigation
- RS232 serial interface enables data transfer for the external logging of welding data
- 5" display
- Simple adaptation to special purpose machines

SDG

Operating frequency **70/40/35/30/20 kHz**
Max. power output **100/200/400/500/750/800/900/1000/1500/2000 W**
Weight **9.5 kg**

- Interactiv programmable
- Multitrack for the synchronous operation of several modules optionally available
- Softstart function
- Softstop function
- 5x20 character LCD display

RDG

Operating frequency **70/40/35/30/20 kHz**
Max. power output **100/200/400/500/750/800/900/1000/1500/2000 W**
Weight **9.5 kg**

- Easy to program
- Multitrack for the synchronous operation of several modules optionally available

AGM PRO

Operating frequency **70/40/35/20 kHz**
Max. power output **100/400/600/750/ 900/ 1000/1500/2000/3000 W**
Weight **3.5/4/4.5 kg**

- Designed for the integration into special purpose machines
- All controlling tasks and parameter input via external controller
- Data transfer by interchangeable module for all common communication protocols
- Digital error coding
- Touch display and web application

AGM / FPG

Operating frequency **70/40/35/30/20 kHz**
Max. power output **100/400/500/600/800/ 900/ 1000/1500/2000/3000 W**
Weight **5.5/6/6.5 kg**

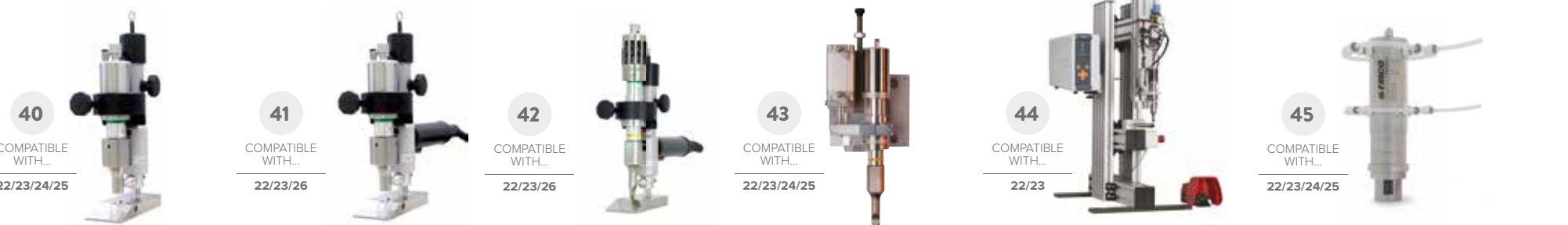
- Designed for the integration into special purpose machines
- All controlling tasks and parameter input via external controller
- Data transfer by bus compatible interfaces
- Digital error coding
- FPG: With stainless steel cover for the food processing industry

ECOLINE

Operating frequency **35 kHz**
Max. power output **400 W**
Weight **5.5 kg**

- Only available with hand units
- Working frequency of 35 kHz
- Amplitude adjustable in the range of 40% to 100%
- With handle
- Plug and play
- Available with carrying case

CUTTING UNITS



CH35-4

Operating frequency **35 kHz**
Weight **1.4 kg**

- Designed for the integration into cutting rails as well as on weaving machines
- Air cooling optionally retrofit
- Ideal for continuous cutting

HC35 WITH CUTTING WHEEL

Operating frequency **35 kHz**
Weight **1.7 kg** incl. converter

- Suitable for textiles and fabrics with minimum 50% synthetic fibre content
- Simultaneous cutting and welding along the cutting line
- Ideal for straight cuts and contours

HC35 WITH CUTTING HORN

Operating frequency **35 kHz**
Weight **1.7 kg** incl. converter

- Suitable for textiles and fabrics with minimum 50% synthetic fibre content
- Simultaneous cutting and welding along the cutting line
- Ideal for straight cuts and contours

SV35-40

Operating frequency **35 kHz**
Max. stroke **40 mm**
Weight **3 kg** incl. oscillator

- Designed for the integration into cutting rails as well as on weaving machines
- Air cooling optionally retrofit
- Ideal for continuous cutting

CUTTING STATION

Type 5
Operating frequency **35 kHz**
Weight **70 kg** without generator

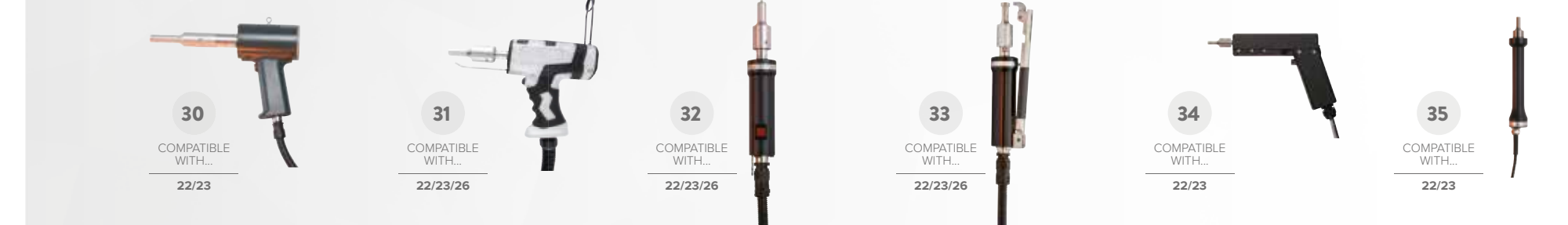
- Ideal for the trimming of retro-injected fabrics
- IP69 / Stainless steel housing
- Built to last

SFC20

Operating frequency **20 kHz**
Weight **4.0 kg**

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

HAND WELDING UNITS



HG20-1

Operating frequency **20 kHz**
Weight **1.8 kg** incl. transducer

- Ideal for spot welding, riveting or beading
- Rugged construction for optimal sound propagation
- Very high performance

HG35-EC/HG35-RS

Operating frequency **35 kHz**
Weight **0.6 kg** incl. converter

- Ideal for spot welding, riveting, beading or cutting with template horns
- Rugged construction for optimal sound propagation
- Protected cable duct
- Integrated cooling

HW35

Operating frequency **35 kHz**
Weight **0.7 kg** incl. transducer

- Ideal for spot welding, riveting, beading or cutting with template horns
- Rugged construction for optimal sound propagation
- Protected cable duct

HT35

Operating frequency **35 kHz**
Weight **1.2 kg** incl. transducer

- Ideal for spot welding, riveting, beading or cutting with template horns
- Automatic triggering by activating the integrated microswitch

HG70-1

Operating frequency **70 kHz**
Weight **250 g** incl. converter

- Ideal for spot welding, riveting, beading or cutting with template horns
- Very small device for ergonomic working

HW70-3

Operating frequency **70 kHz**
Weight **170 g** incl. transducer

- Ideal for spot welding, riveting, beading or cutting with template horns
- Very small device for ergonomic working

SPECIAL ACTUATORS



SPA20

with front
Operating frequency **20 kHz**
Max. force **2000 N**
Max. stroke **100 mm**

- Designed for the integration into special purpose machines
- Travel measurement, trigger / trigger potentiometer and depth detecting stop optionally retrofit
- Compact construction

SV35-100/50

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

- Designed for the assembly into special purpose machines
- Optionally with travel measurement, valve block and trigger box
- Compact construction
- Ultra rigid

MA35-20

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

- Designed for the assembly into special purpose machines
- Very small and compact
- Adjustable stroke limitation

SPC35

Operating frequency **35 kHz**
Spring load max. **242 N**
Max. stroke **8 mm**

- Suitable for automated welding operations with short cycles
- Ideally suitable as a replacement for composite horns
- Constant spring load
- Heavy duty

OPTIONS



WORKSTATION

Operating frequency **20, 35 kHz**
Dimensions WxHxD: **620x222x750 mm**

- Ultrasonic welding in combination with an ultrasonic press and a generator
- Sound absorption of 20 dB
- With automatic drawer or rotative table

SOUND ENCLOSURE

Operating frequency **20 kHz**
Dimensions WxHxD: **760x1700x800 mm**
Weight **135 kg**

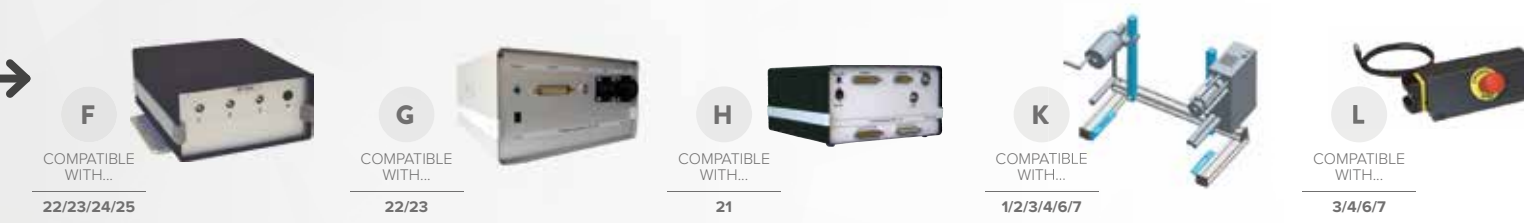
- High sound absorption
- Base unit for optimum working height optionally available
- Actuation using two-hand start, in accordance with CE standards

TOOLS

The tools manufactured by RINCO ULTRASONICS are suitable for welding and cutting operations of various kinds.

- Anvils and Horns
- Horns in five different frequencies (20, 30, 35, 40 and 70 kHz) and for various applications
- Customized tool design
- Calculation of the oscillation performance using FEM-technology

ACCESSORIES



HF SWITCH BOX

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

- Designed for the distribution of a HF signal from one single generator to several oscillator systems

DEVICE SWITCH BOX

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

- Designed for the operation of several devices with one single generator

DEVICE SWITCH BOX ADG

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

- Designed for smaller multi-head machines, when no superior control or a minimum of PLC is desired

FOIL TRANSPORT SET

Feeding speed **0.1 m/s**
Feeding path **5-500 mm**

- Width up to 150 mm
- Core 25 mm or 75 mm

TWO-HAND START - DUO TOUCH

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

- For manually operated welding machines
- For cleanroom operation
- For ergonomic requirements

Our products can be integrated into special purpose machinery and automated lines without problem.

RINCO generators and robotcontrolled cutting tools are used to process **textile-clad interiors for the automotive industry,** for example, where the fabric is cut and sealed at the edges of the plastic part.

THE INTEGRATION SPECIALISTS

Thanks to their modular design, standard products such as actuators and generators **can also be perfectly fitted into special purpose machines.** In addition, however, we also supply OEM products such as the AGM generator, which can be completely controlled by an independent PLC fitted to the machine. Multitracks allow several generator modules to be operated at once, our special actuators will never let you down, even when it comes to the most demanding or challenging applications.



Robotically guided oscillator system with cutting horn



Food cutting



Swiss technology



ULTRASONICS IS USED IN MANY DIFFERENT AREAS

COSMETICS



FOOD



HOUSEHOLD



PACKAGING



MEDICAL



HIGH-TECH



NON-WOVEN &
TEXTILE



AUTOMOTIVE



rincoultrasonics.com



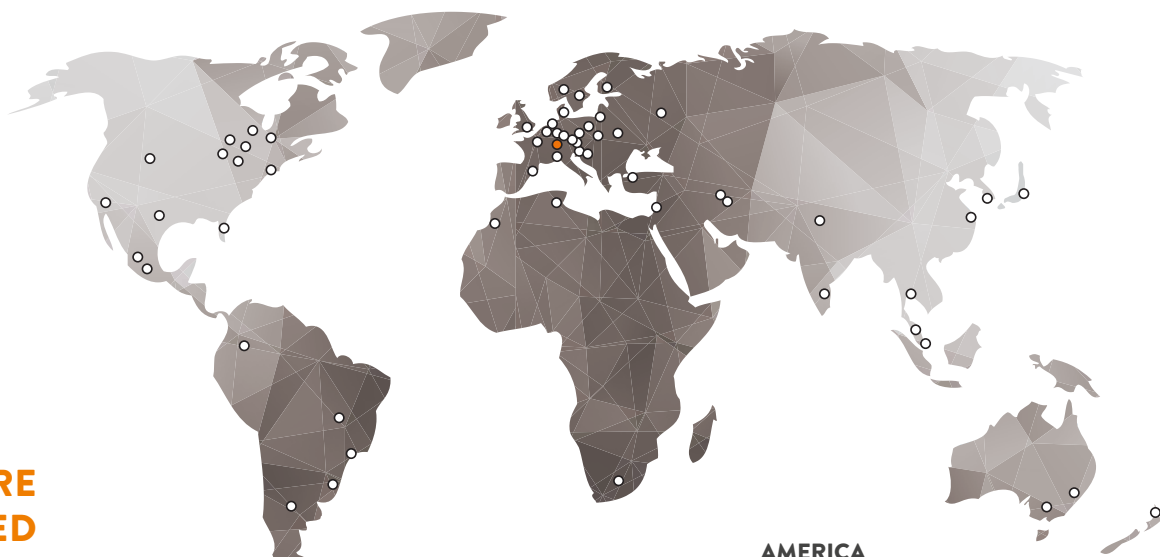
For full contact information please have a look at our website.



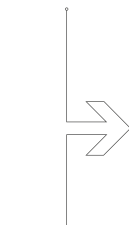
CUSTOM TECHNOLOGY ON DEMAND



As a supplier of components and consultants on integration, we work very closely with international OEM partners and can therefore also offer you the ideal solution for your automated application!



**WE ARE
FOCUSED
COMMITTED
GLOBAL
LOCAL**



CONTACT US FOR MORE INFORMATION

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

Industriestrasse 4
CH-8590 Romanshorn
Switzerland

EUROPE

SWITZERLAND

rincoultrasonics.ch

GERMANY

rincoultrasonics.de

FRANCE

rinco-france.com

SPAIN

rincoultrasonics.es

ITALY

rincoultrasonics.it

SWEDEN

rincoultrasonics.se

DENMARK

rincoultrasonics.dk

AMERICA

USA

rinco-usa.com

MEXICO

rincoultrasonics.mx

ASIA

CHINA

rincochina.com

INDIA

rincoindia.com

JAPAN

uthe.co.jp

MALAYSIA

rincoultrasonics.com.my

AFRICA

MOROCCO

rincoultrasonics.com

