

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 setting. In the background, there is a large piece of industrial equipment with the RINCO logo and the number '40'. To the right, there is a control panel with a screen and various buttons. The overall scene is a professional 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

<p>1</p> <p>COMPATIBLE WITH... 20</p>	<p>2</p> <p>COMPATIBLE WITH... 20</p>	<p>3</p> <p>COMPATIBLE WITH... 21</p>	<p>4</p> <p>COMPATIBLE WITH... 21</p>	<p>5</p> <p>COMPATIBLE WITH... 21</p>	<p>6</p> <p>COMPATIBLE WITH... 22</p>	<p>7</p> <p>COMPATIBLE WITH... 22</p>	<p>8</p> <p>COMPATIBLE WITH... 22</p>
<p>ELECTRICAL MOTION 20</p> <p>Operating frequency 20 kHz Max. force 3000 N Weight c.a. 130 kg</p> <ul style="list-style-type: none"> Electrically driven Audit trail function Very high welding quality Remote control access Easy to handle 	<p>ELECTRICAL MOTION 35</p> <p>Operating frequency 35 kHz Max. force 750 N Weight c.a. 53 kg</p> <ul style="list-style-type: none"> Electrically driven Audit trail function Very high welding quality Remote control access Easy to handle 	<p>STANDARD 3000</p> <p>Operating frequency 20 kHz Max. force 3000 N Weight 115 kg</p> <ul style="list-style-type: none"> 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 	<p>STANDARD 745</p> <p>Operating frequency 35 kHz Max. force 745 N Weight 41 kg</p> <ul style="list-style-type: none"> Repeatable welding force Simple tool change and quick setup Integrated travel measurement High process reliability Cleanroom version available 	<p>STANDARD 50</p> <p>Operating frequency 70 kHz Max. force 50 N Weight 18 kg</p> <ul style="list-style-type: none"> Repeatable welding force Modular construction Simple tool change and quick setup High process reliability 	<p>EASY 3000</p> <p>Operating frequency 20 kHz Max. force 3000 N Weight 115 kg</p> <ul style="list-style-type: none"> High process reliability Repeatable welding force Simple tool change and quick setup The actuator VEA is suitable for integration into special purpose machines 	<p>EASY 745</p> <p>Operating frequency 35 kHz Max. force 745 N Weight 41 kg</p> <ul style="list-style-type: none"> High process reliability Repeatable welding force Simple tool change and quick setup The actuator VEA is suitable for integration into special purpose machines 	<p>ABW35</p> <p>Operating frequency 35 kHz Max. force 745 N Weight 11 kg</p> <ul style="list-style-type: none"> 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

<p>20</p> <p>COMPATIBLE WITH... 2/3</p>	<p>21</p> <p>COMPATIBLE WITH... 3/4/5 50/51</p>	<p>22</p> <p>COMPATIBLE WITH... 6/7/8/30 31/32/33 34/35/40 41/42/43 44/50/51 52/53</p>	<p>23</p> <p>COMPATIBLE WITH... 30/31/32 33/34/35 40/41/42 43/44/50 51/52/53</p>	<p>24</p> <p>COMPATIBLE WITH... 40/43/51 52/53</p>	<p>25</p> <p>COMPATIBLE WITH... 40/43/50/51 52/53</p>	<p>26</p> <p>COMPATIBLE WITH... 31/32 33/41/42</p>
<p>XDG</p> <p>Operating frequency 35/20 kHz Max. power output 2000/3000 W Weight 16 kg</p> <ul style="list-style-type: none"> Audit trail Data export Multi-level user administration Remote maintenance 8 welding modes to choose from 	<p>ADG</p> <p>Operating frequency 70/35/30/20 kHz Max. power output 100/400/600/900/1000/1500/2000/3000 W Weight 16 kg</p> <ul style="list-style-type: none"> 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 	<p>SDG</p> <p>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</p> <ul style="list-style-type: none"> Interactiv programmable Multitrack for the synchronous operation of several modules optionally available Softstart function Softstop function 5x20 character LCD display 	<p>RDG</p> <p>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</p> <ul style="list-style-type: none"> Easy to program Multitrack for the synchronous operation of several modules optionally available 	<p>AGM PRO</p> <p>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</p> <ul style="list-style-type: none"> 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 	<p>AGM / FPG</p> <p>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</p> <ul style="list-style-type: none"> 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 	<p>ECOLINE</p> <p>Operating frequency 35 kHz Max. power output 400 Weight 5.5 kg</p> <ul style="list-style-type: none"> 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

<p>40</p> <p>COMPATIBLE WITH... 22/23/24/25</p>	<p>41</p> <p>COMPATIBLE WITH... 22/23/26</p>	<p>42</p> <p>COMPATIBLE WITH... 22/23/26</p>	<p>43</p> <p>COMPATIBLE WITH... 22/23/24/25</p>
<p>CH35-4</p> <p>Operating frequency 35 kHz Weight 1.4 kg</p> <ul style="list-style-type: none"> Designed for the integration into cutting rails as well as on weaving machines Air cooling optionally retrofit Ideal for continuous cutting 	<p>HC35 WITH CUTTING WHEEL</p> <p>Operating frequency 35 kHz Weight 1.7 kg incl. converter</p> <ul style="list-style-type: none"> 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 	<p>HC35 WITH CUTTING HORN</p> <p>Operating frequency 35 kHz Weight 1.7 kg incl. converter</p> <ul style="list-style-type: none"> 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 	<p>SV35-40</p> <p>Operating frequency 35 kHz Max. stroke 40 mm Weight 3 kg incl. oscillator</p> <ul style="list-style-type: none"> 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
- Also suitable for the assembly into manufacturing cells
- Rugged construction

HAND WELDING UNITS

<p>30</p> <p>COMPATIBLE WITH... 22/23</p>	<p>31</p> <p>COMPATIBLE WITH... 22/23/26</p>	<p>32</p> <p>COMPATIBLE WITH... 22/23/26</p>	<p>33</p> <p>COMPATIBLE WITH... 22/23/26</p>	<p>34</p> <p>COMPATIBLE WITH... 22/23</p>	<p>35</p> <p>COMPATIBLE WITH... 22/23</p>
<p>HG20-1</p> <p>Operating frequency 20 kHz Weight 1.8 kg incl. transducer</p> <ul style="list-style-type: none"> Ideal for spot welding, riveting or beading Rugged construction for optimal sound propagation Very high performance 	<p>HG35-EC/HG35-RS</p> <p>Operating frequency 35 kHz Weight 0.6 kg incl. converter</p> <ul style="list-style-type: none"> Ideal for spot welding, riveting, beading or cutting with template horns Rugged construction for optimal sound propagation Protected cable duct Integrated cooling 	<p>HW35</p> <p>Operating frequency 35 kHz Weight 0.7 kg incl. transducer</p> <ul style="list-style-type: none"> Ideal for spot welding, riveting, beading or cutting with template horns Rugged construction for optimal sound propagation Protected cable duct 	<p>HT35</p> <p>Operating frequency 35 kHz Weight 1.2 kg incl. transducer</p> <ul style="list-style-type: none"> Ideal for spot welding, riveting, applications of blister packages, laminated cardboard, plastic foils or textiles and fabrics with a minimum of 50% synthetic fibre content Automatic triggering by activating the integrated microswitch 	<p>HG70-1</p> <p>Operating frequency 70 kHz Weight 250 g incl. converter</p> <ul style="list-style-type: none"> Ideal for spot welding, riveting, beading or cutting with template horns Very small device for ergonomic working 	<p>HW70-3</p> <p>Operating frequency 70 kHz Weight 170 g incl. transducer</p> <ul style="list-style-type: none"> Ideal for spot welding, riveting, beading or cutting with template horns Very small device for ergonomic working

SPECIAL ACTUATORS

<p>50</p> <p>COMPATIBLE WITH... 21/22/23 24/25</p>	<p>51</p> <p>COMPATIBLE WITH... 21/22/23 24/25</p>	<p>52</p> <p>COMPATIBLE WITH... 22/23/24/25</p>	<p>53</p> <p>COMPATIBLE WITH... 22/23/24/25</p>
<p>SPA20</p> <p>with front</p> <p>Operating frequency 20 kHz Max. force 2000 N Max. stroke 100 mm</p> <ul style="list-style-type: none"> Designed for the integration into special purpose machines Travel measurement, trigger / trigger potentiometer and depth detecting stop optionally retrofit Compact construction 	<p>SV35-100/50</p> <p>Operating frequency 35 kHz Max. force 745 N Max. stroke 100/50 mm</p> <ul style="list-style-type: none"> Designed for the assembly into special purpose machines Optionally with travel measurement, valve block and trigger box Compact construction Ultra rigid 	<p>MA35-20</p> <p>Operating frequency 35 kHz Max. force 450 N Max. stroke 20 mm</p> <ul style="list-style-type: none"> Designed for the assembly into special purpose machines Very small and compact Adjustable stroke limitation 	<p>SPC35</p> <p>Operating frequency 35 kHz Spring load max. 242 N Max. stroke 8 mm</p> <ul style="list-style-type: none"> Suitable for automated welding operations with short cycles Ideally suitable as a replacement for composite horns Constant spring load Heavy duty

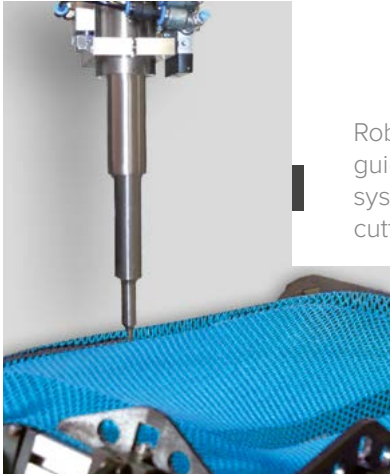
OPTIONS

<p>A</p> <p>COMPATIBLE WITH... 2/3/4</p>	<p>B</p> <p>COMPATIBLE WITH... 1/2/3</p>	<p>C</p>
<p>WORKSTATION</p> <p>Operating frequency 20, 35 kHz Dimensions WxHxD: 620x222x750 mm</p> <ul style="list-style-type: none"> Ultrasonic welding in combination with an ultrasonic press and a generator Sound absorption of 20 dB With automatic drawer or rotative table 	<p>SOUND ENCLOSURE</p> <p>Operating frequency 20 kHz Dimensions WxHxD: 760x1700x800 mm Weight 135 kg</p> <ul style="list-style-type: none"> High sound absorption Base unit for optimum working height optionally available Actuation using two-hand start, in accordance with CE standards 	<p>TOOLS</p> <p>The tools manufactured by RINCO ULTRASONICS are suitable for welding and cutting operations of various kinds.</p> <ul style="list-style-type: none"> 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

<p>F</p> <p>COMPATIBLE WITH... 22/23/24/25</p>	<p>G</p> <p>COMPATIBLE WITH... 22/23</p>	<p>H</p> <p>COMPATIBLE WITH... 21</p>	<p>K</p> <p>COMPATIBLE WITH... 1/2/3/4/6/7</p>	<p>L</p> <p>COMPATIBLE WITH... 3/4/6/7</p>
<p>HF SWITCH BOX</p> <p>Operating frequency 20/35/70 kHz</p> <ul style="list-style-type: none"> Designed for the distribution of a HF signal from one single generator to several oscillator systems 	<p>DEVICE SWITCH BOX</p> <p>Operating frequency 20/35/70 kHz</p> <ul style="list-style-type: none"> Designed for the operation of several devices with one single generator 	<p>DEVICE SWITCH BOX ADG</p> <p>Operating frequency 20/35/70 kHz</p> <ul style="list-style-type: none"> Designed for smaller multi-head machines, when no superior control or a minimum of PLC is desired 	<p>FOIL TRANSPORT SET</p> <p>Feeding speed 0.1 m/s Feeding path 5-500 mm</p> <ul style="list-style-type: none"> Width up to 150 mm Core 25 mm or 75 mm 	<p>TWO-HAND START - DUO TOUCH</p> <p>Operating frequency 20/35/70 kHz</p> <ul style="list-style-type: none"> 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.



Robotically guided oscillator system with cutting horn

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.



Food cutting



ULTRASONICS IS USED IN MANY DIFFERENT AREAS



AUTOMOTIVE



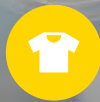
HIGH-TECH



PACKAGING



FOOD



NON-WOVEN &
TEXTILE



MEDICAL



HOUSEHOLD



COSMETICS



rincoultrasonics.com

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

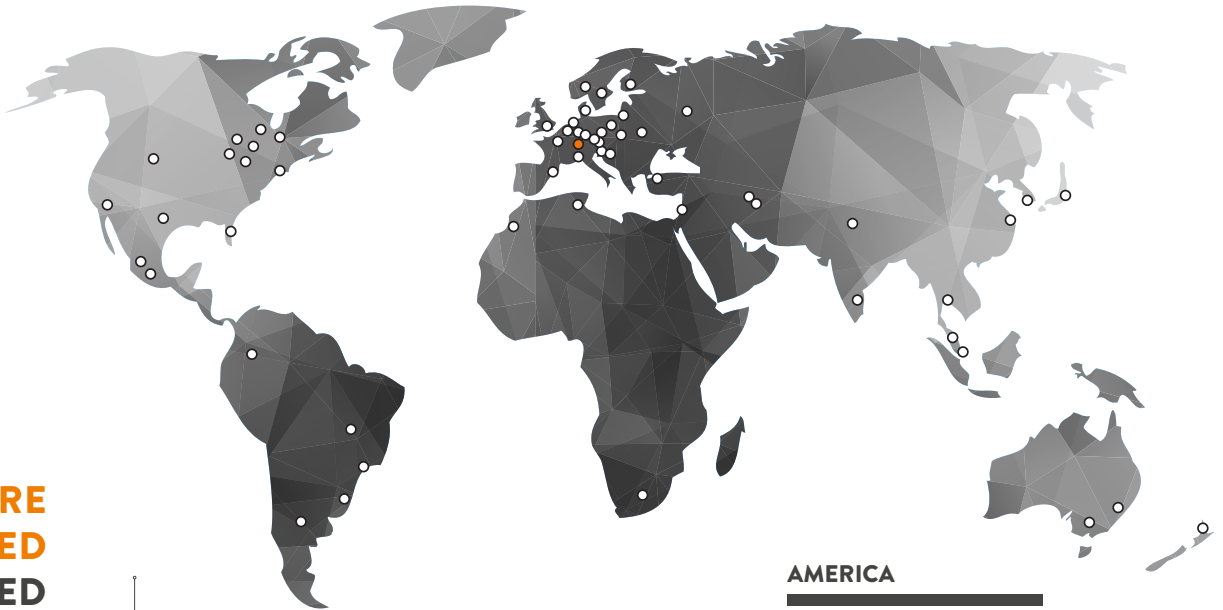
As a supplier of components and consultants on integration, we work very closely with international OEM partners and can therefore also offer you the ideal solution for your automated application!



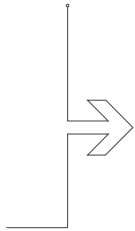
**CUSTOM
TECHNOLOGY
ON DEMAND**

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**WE ARE
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