



# Ultrasonics

Welding and cutting technology

*Technology that moves.*

# The Integration Specialists

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.



← Robotically guided oscillator system with cutting horn

↓ Continuous cutting of food and non-wovens



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. Multiracks 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. 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!



# The Ultrasonics Specialists

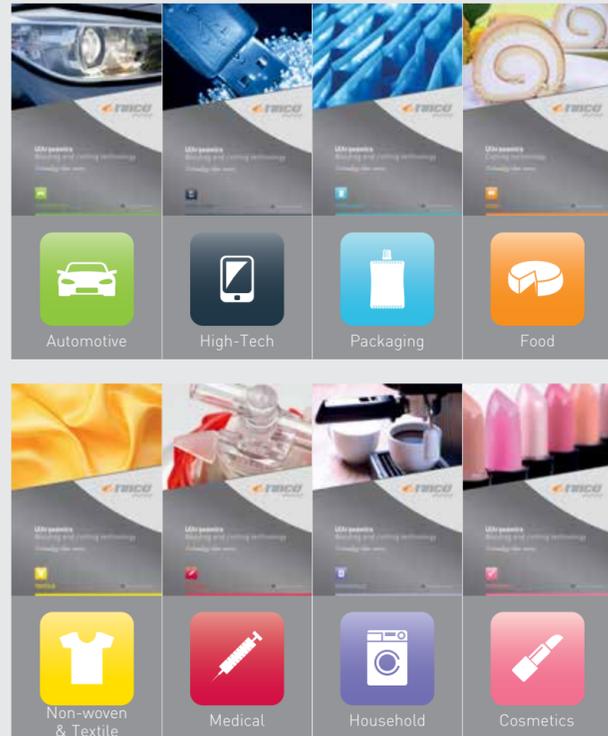
## RINCO ULTRASONICS AG

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

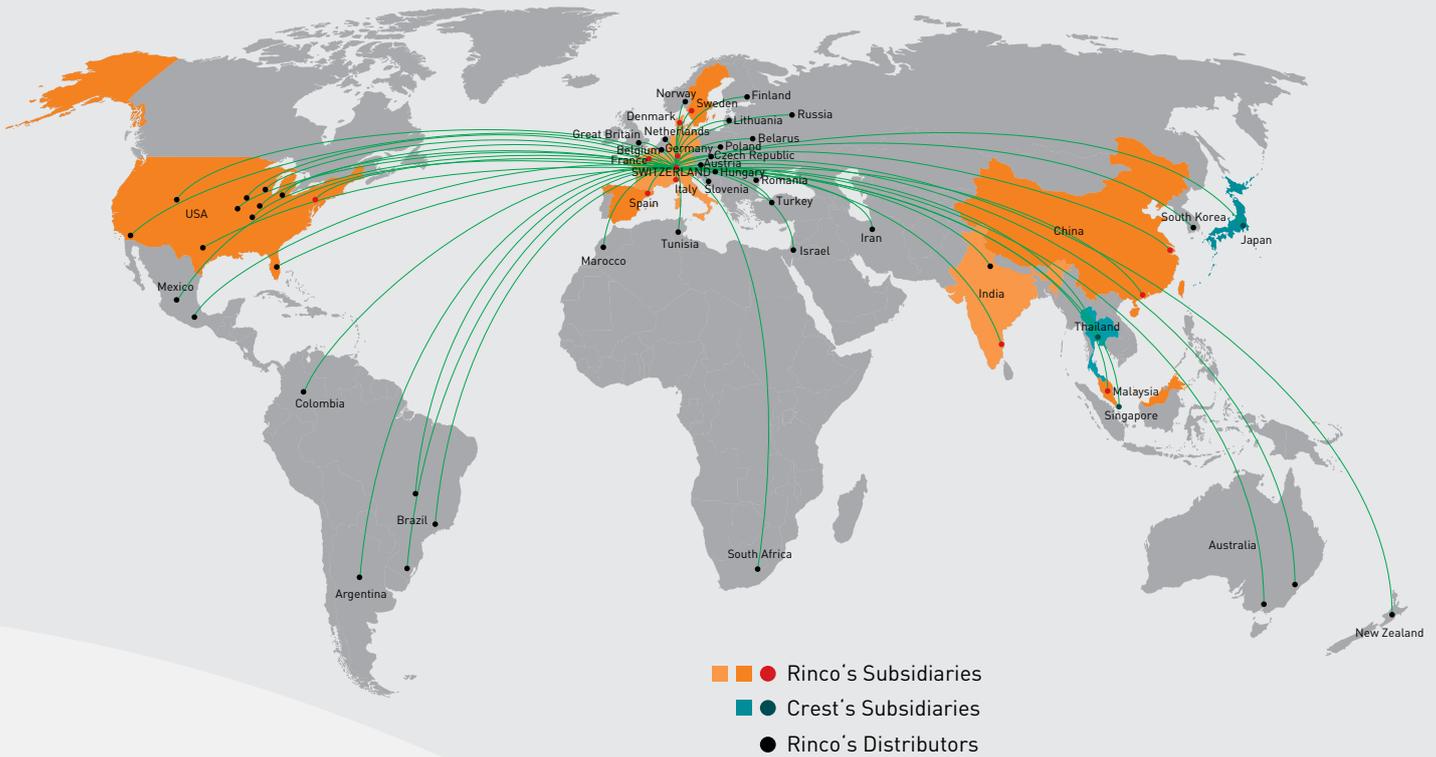
We also channel our years of experience into developing new and innovative products and ensure our customers always receive the optimum solution for their requirements. Furthermore, our company is certified to ISO 9001, ISO 13485 and ISO 14001 and can be relied upon for high quality standards as well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

## Ultrasonics is used in many different areas:



WELDING MACHINES	WELDING GENERATORS	HAND WELDING UNITS	CUTTING UNITS	SPECIAL ACTUATORS	ADDITIONAL	
<p><b>1</b> <b>Electrical Motion</b></p> <p>Operating frequency 20 kHz Max. force 3000 N Weight ca. 130 kg</p> <p>Electrically driven Audit trail function Very high welding quality Remote control access Easy to handle</p>	<p><b>20</b> <b>ACU</b></p> <p>Operating frequency 35/20 kHz Max. power output 900/2000/3000 W Weight 16 kg</p> <p>Compatible with 2 3</p> <p>Real time operation 6" graphic display Interfaces for data analysis and parameterization Simple adaptation to special purpose machines</p>	<p><b>30</b> <b>HG20-1</b></p> <p>Operating frequency 20 kHz Weight 1.8 kg incl. transducer</p> <p>Compatible with 22 23</p> <p>Ideal for spot welding, riveting or beading Rugged construction for optimal sound propagation Very high performance</p>	<p><b>40</b> <b>CH35-4</b></p> <p>Operating frequency 35 kHz Weight 1.4 kg</p> <p>Compatible with 22 23 24 25</p> <p>Designed for the integration into cutting rails as well as on weaving machines Air cooling optionally retrofit Ideal for continuous cutting</p>	<p><b>50</b> <b>SPA20</b></p> <p>with front Operating frequency 20 kHz Max. force 2000 N Max. stroke 100</p> <p>Compatible with 21 22 23 24</p> <p>Designed for the integration into special purpose machines Travel measurement, trigger / trigger potentiometer and depth detecting stop optionally retrofit Compact construction</p>	<p><b>A</b> <b>Workstation</b></p> <p>Operating frequency 20, 35 kHz Dimensions WxHxD: 620x222x750 mm</p> <p>Compatible with 2 3 4 5 6</p> <p>Ultrasonic welding in combination with a Standard or Dynamic ultrasonic press and an ADG resp. ACU generator Sound absorption of 20 dB With automatic drawer or rotative table</p>	
<p><b>2</b> <b>Dynamic 3000</b></p> <p>Operating frequency 20 kHz Max. force 3000 N Weight 120 kg</p> <p>Compatible with 20</p> <p>Can be housed in sound enclosures SSK Can be calibrated Highest repeatability Suitable for validation High process reliability Clean room version available</p>	<p><b>21</b> <b>ADG</b></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> <p>Compatible with 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100</p> <p>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>	<p><b>31</b> <b>HG35-3</b></p> <p>Operating frequency 35 kHz Weight 1.2 kg incl. converter</p> <p>Compatible with 22 23 26</p> <p>Ideal for spot welding, riveting, beading or cutting with template horns Rugged construction for optimal sound propagation Protected cable duct Integrated cooling</p>	<p><b>41</b> <b>HC35-4</b></p> <p>Operating frequency 35 kHz Weight 1.7 kg incl. converter</p> <p>Compatible with 22 23 26</p> <p>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>	<p><b>51</b> <b>SV35-100/50</b></p> <p>with front Operating frequency 35 kHz Max. force 745 N Max. stroke 100/50 mm</p> <p>Compatible with 21 22 23 24</p> <p>Designed for the assembly into special purpose machines Optionally with travel measurement, valve block and trigger box Compact construction</p>	<p><b>B</b> <b>Sound enclosure</b></p> <p>Operating frequency 20 kHz Dimensions WxHxD: 760x1700x800 mm Weight 135 kg</p> <p>Compatible with 2 3 4 5</p> <p>High sound absorption Base unit for optimum working light optionally available Actuation using two-hand start, in accordance with CE standards</p>	
<p><b>3</b> <b>Dynamic 745</b></p> <p>Operating frequency 35 kHz Max. force 745 N Weight 41 kg</p> <p>Compatible with 20</p> <p>Can be calibrated Highest repeatability Suitable for validation High process reliability Clean room version available</p>	<p><b>22</b> <b>SDG</b></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> <p>Compatible with 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100</p> <p>Interactive programmable Multitrack for the synchronous operation of several modules optionally available Softstart function Softstop function 5x20 character LCD display</p>	<p><b>32</b> <b>HW35-3</b></p> <p>Operating frequency 35 kHz Weight 0.7 kg incl. transducer</p> <p>Compatible with 22 23 26</p> <p>Ideal for spot welding, riveting, beading or cutting with template horns Rugged construction for optimal sound propagation Protected cable duct</p>	<p><b>42</b> <b>SV35-40</b></p> <p>Operating frequency 35 kHz Weight 3 kg incl. oscillator Max. stroke 40 mm</p> <p>Compatible with 22 23 24</p> <p>Designed for the integration into cutting rails as well as on weaving machines Air cooling optionally retrofit Ideal for continuous cutting</p>	<p><b>52</b> <b>SV35-100/50</b></p> <p>without front Operating frequency 35 kHz Max. force 745 N Max. stroke 100/50 mm</p> <p>Compatible with 21 22 23 24</p> <p>Designed for the assembly into special purpose machines Optionally with travel measurement, valve block and trigger box Compact construction</p>	<p><b>C</b> <b>Tools</b></p> <p>The tools manufactured by RINCO ULTRASONICS are suitable for welding and cutting operations of various kinds.</p> <p>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</p>	
<p><b>4</b> <b>Standard 3000</b></p> <p>Operating frequency 20 kHz Max. force 3000 N Weight 115 kg</p> <p>Compatible with 21</p> <p>Can be housed in sound enclosures SSK Repeatable welding force Simple tool change and quick setup Integrated travel measurement High process reliability Clean room version available</p>	<p><b>23</b> <b>RDG</b></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> <p>Compatible with 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100</p> <p>Easy to program Multitrack for the synchronous operation of several modules optionally available</p>	<p><b>33</b> <b>HT35-2</b></p> <p>Operating frequency 35 kHz Weight 1.2 kg incl. transducer</p> <p>Compatible with 22 23 26</p> <p>Ideal for spot welding 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>	<p><b>43</b> <b>Cutting station</b></p> <p>Type 5 Operating frequency 35 kHz Weight 70 kg without generator</p> <p>Compatible with 22 23</p> <p>Ideal for the trimming of retro-injected fabrics Also suitable for the assembly into manufacturing cells Rugged construction</p>	<p><b>53</b> <b>MA35-20</b></p> <p>Operating frequency 35 kHz Max. force 450 N Max. stroke 20 mm</p> <p>Compatible with 22 23 24</p> <p>Designed for the assembly into special purpose machines Very small and compact Adjustable stroke limitation</p>	<p><b>ACCESSORIES</b></p>	
<p><b>5</b> <b>Standard 745</b></p> <p>Operating frequency 35 kHz Max. force 745 N Weight 41 kg</p> <p>Compatible with 21</p> <p>Repeatable welding force Simple tool change and quick setup Integrated travel measurement High process reliability Clean room version available</p>	<p><b>24</b> <b>AGM</b></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> <p>Compatible with 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100</p> <p>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</p>	<p><b>34</b> <b>HG70-1</b></p> <p>Operating frequency 70 kHz Weight 250 g incl. converter</p> <p>Compatible with 22 23</p> <p>Ideal for spot welding, riveting, beading or cutting with template horns Very small device for ergonomic working</p>	<p><b>44</b> <b>LC35-1</b></p> <p>Operating frequency 35 kHz Weight 7 kg without generator</p> <p>Compatible with 22 23</p> <p>For continuous cutting and sealing operations of textiles and fabrics with a minimum of 50% synthetic fibre content Available as left or right hand version</p>	<p><b>54</b> <b>SPC35</b></p> <p>Operating frequency 35 kHz Spring load Max. 242 N Max. stroke 8 mm</p> <p>Compatible with 22 23 24</p> <p>Suitable for automated welding operations with short cycles Ideally suitable as a replacement for composite horns Constant spring load Heavy duty</p>	<p><b>F</b> <b>HF switch Box</b></p> <p>Operating frequency 20/35/70 kHz</p> <p>Designed for the distribution of a HF signal from one single-generator to several oscillator systems</p> <p>Compatible with 2 3 4 5</p>	<p><b>G</b> <b>Device switch Box</b></p> <p>Operating frequency 20/35/70 kHz</p> <p>Designed for the operation of several devices with one single generator</p> <p>Compatible with 2 3</p>
<p><b>6</b> <b>Standard 50</b></p> <p>Operating frequency 70 kHz Max. force 50 N Weight 18 kg</p> <p>Compatible with 21</p> <p>Repeatable welding force Modular construction Simple tool change and quick setup High process reliability</p>	<p><b>25</b> <b>FPG</b></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> <p>Compatible with 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100</p> <p>For food processing 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</p>	<p><b>35</b> <b>HW70-3</b></p> <p>Operating frequency 70 kHz Weight 170 g incl. transducer</p> <p>Compatible with 22 23</p> <p>Ideal for spot welding, riveting, beading or cutting with template horns Very small device for ergonomic working</p>			<p><b>H</b> <b>Device switch Box ADG</b></p> <p>Operating frequency 20/35/70 kHz</p> <p>Designed for smaller multi-head machines, when no superior control or a minimum of PLC is desired</p> <p>Compatible with 2</p>	
<p><b>7</b> <b>Easy 3000</b></p> <p>Operating frequency 20 kHz Max. force 3000 N Weight 115 kg</p> <p>Compatible with 22</p> <p>High process reliability Repeatable welding force Simple tool change and quick setup The actuator VEA is suitable for integration into special purpose machines</p>	<p><b>26</b> <b>ECOLINE</b></p> <p>Operating frequency 35 kHz Max. power output 400 Weight 5.5 kg</p> <p>Compatible with 1 2 3 4 5</p> <p>For hand cutting devices and cutting stations Working frequency of 35 kHz Amplitude adjustable in the range of 40% to 100% With handle Plug and play</p>	<p><b>36</b> <b>ABW35</b></p> <p>Operating frequency 35 kHz Max. force 745 N Weight 11.2 kg</p> <p>Compatible with 22</p> <p>Designed for the packaging industry Short cycles thanks to integrated microswitch Various standard tools available Can be placed on table or mounted to wall</p>			<p><b>K</b> <b>Foil transportset</b></p> <p>Feeding speed 0.1 m/s Feeding path 5-500 mm Width up to 150 mm Core 25 mm or 75 mm</p> <p>Compatible with 2 3 4 5 6 7 8</p>	
<p><b>8</b> <b>Easy 745</b></p> <p>Operating frequency 35 kHz Max. force 745 N Weight 41 kg</p> <p>Compatible with 22</p> <p>High process reliability Repeatable welding force Simple tool change and quick setup The actuator VEA is suitable for integration into special purpose machines</p>					<p><b>L</b> <b>Two-hand start - DUO TOUCH</b></p> <p>Operating frequency 20/35/70 kHz</p> <p>For manually operated welding machines For cleanroom operation For ergonomic requirements</p> <p>Compatible with 2 3 4 5 6 7 8</p>	

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Non-woven  
& Textiles



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