The Ultrasonics Specialists

RINCO ULTRASONICS AG

has developed and built machines and generators as well as components and tools for ultrasonic solutions in the plastic industry 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, particularly in the field of medical engineering. Furthermore, our company is certified to ISO 13485 and ISO 9001 and can be relied upon for high quality standards, quality assurance and expert project execution.

Ultrasonics is used in many different areas:

WELDING MACHINES

1 Electrical Motion

Operating frequency: 20 kHz
Max. force: 3000 N
Weight: ca. 130 kg

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

2 Dynamic 3000

Compatible with: 20

Operating frequency: 20 kHz
Max. force: 3000 N
Weight: 120 kg

- Can be housed in sound enclosures SSK
- Can be calibrated
- Highest repeatability
- Suitable for validation
- High process reliability
- Clean room version available

3 Dynamic 745

Compatible with: 20

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

- Can be calibrated
- Highest repeatability
- Suitable for validation
- High process reliability
- Clean room version available

4 Standard 3000

Compatible with: 21

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

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

5 Standard 745

Compatible with: 21

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

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

6 Standard 50

Compatible with: 21

Operating frequency: 70 kHz
Max. force: 50 N
Weight: 18 kg

- High process reliability
- Repeatable welding force
- Simple tool change and quick setup
- Modular construction

7 Easy 3000

Compatible with: 22

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

8 Easy 745

Compatible with: 22

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

WELDING GENERATORS

20 ACU

Compatible with: 2 3

Operating frequency: 35/20 kHz
Max. power output: 900/2000/3000 W
Weight: 16 kg

- Real time operation
- 6" graphic display
- Interfaces for data analysis and parameterization
- Simple adaptation to special purpose machines

21 ADG

Compatible with: 4 5 6 30 31 50

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

22 SDG

Compatible with: 7 8 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45

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

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

23 RDG

Compatible with: 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45

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
- Multirack for the synchronous operation of several modules optionaly available

24 AGM

Compatible with: 30 32 50 51 52 53 54

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

25 FPG

Compatible with: 30 32 50 51 52 53 54

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

- 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

26 ECOLINE

Compatible with: 21 22 23 40 41

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

- 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

HAND WELDING UNITS

30 HG20-1

Compatible with: 22 23

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

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

31 HG35-3

Compatible with: 22 23 24

Operating frequency: 35 kHz
Weight: 1.2 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

32 HW35-3

Compatible with: 22 23 24

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

33 HT35-2

Compatible with: 22 23 24

Operating frequency: 35 kHz
Weight: 1.2 kg inkl. transducer

- 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

34 HG70-1

Compatible with: 22 23

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

35 HW70-3

Compatible with: 22 23

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

36 ABW35

Compatible with: 22

Operating frequency: 35 kHz
Max. force: 745 N
Weight: 11.2 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

CUTTING UNITS

40 CH35-4

Compatible with: 22 23 24

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

41 HC35-4

Compatible with: 22 23 24

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 cutsand contours

42 SV35-40

Compatible with: 22 23 24

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

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

43 Cutting station

Compatible with: 22 23

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

44 LC35-1

Compatible with: 22 23

Operating frequency: 35 kHz
Weight: 7 kg without generator

- 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

SPECIAL ACTUATORS

50 SPA20

Compatible with: 21 22 23 24

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

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

51 SV35-100/50

Compatible with: 21 22 23 24

with front
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

52 SV35-100/50

Compatible with: 21 22 23 24

without front
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

53 MA35-20

Compatible with: 22 23 24

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

54 SPC35

Compatible with: 22 23 24

with front
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

ADDITIONAL

A Workstation

Compatible with: 2 3 4 5 6 7

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

- Ultrasonic welding in combination with a Standard ultrasonic press and an ADG generator
- Laser welding in combination with a Standard ultrasonic press and an ADG generator
- Sound absorption of 20 dB

B Sound enclosure

Compatible with: 2 4 7

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

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

C 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 forvarious applications
- Customized tool design
- Calculation of the oscillation performance using FEM-technology

ACCESSORIES

F 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

Compatible with: 22 23 24 25

G Device switch Box

Operating frequency: 20/35/70 kHz

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

Compatible with: 22 23

H 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

Compatible with: 1

K Foil transportset

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

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

Compatible with: 2 3 4 5 7 8

L Two-hand start - DUO TOUCH

Operating frequency: 20/35/70 kHz

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

Compatible with: 2 3 4 5 7 8

For full contact information please have a look at our website: **www.rincoultrasonics.com**