

Ultrasonic welding machines

electrical
moTion

*Faster, safer, more accurate and economical.
New, all-in-one technology.*



**NEW
35 kHz**

TECHSPAN GROUP

Australia:

www.rincoultrasonics.com.au

info@rincoultrasonics.com.au

1800 148 791

New Zealand:

www.rincoultrasonics.co.nz

info@rincoultrasonics.co.nz

(09) 827 6567

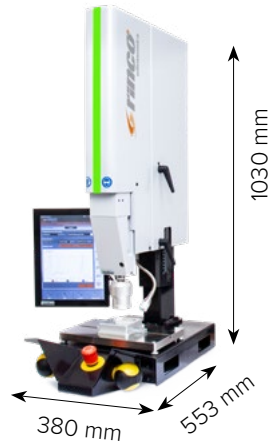
rinco[®]
ultrasonics

Technology **that moves**

ELECTRICAL MOTION SERIES



Electrical Motion 20



Electrical Motion 35






Powerful and precise

The ultrasonic welding machines in the Electrical Motion series are the perfect choice for welding, cutting and punching plastics, non-wovens and textiles.

The **electric drive** makes the controller **extremely precise**, delivering the best possible welding results.

In addition to the **8 welding modes**, a **trigger** can be set to initiate the ultrasound. Not only that, but the **melting process can also be split into 10 steps**.

electrical
motion

	Electrical Motion 20	Electrical Motion 35
KHZ Operating frequency:	20 kHz	35 kHz
 3000N Maximum force:	3000 N	750 N
 Drive:	Electric (230 VAC)	Electric (230 VAC)
 Maximum stroke:	100 mm	100 mm
 KG Weight:	135 kg	53 kg
 Height adjustment:	0–280 mm	0–180 mm

COMPATIBLE GENERATORS

	Electrical Motion 20	Electrical Motion 35
Compatible generator:	XDG20 with SCU20	XDG35 with SCU35
Output power:	2000 W, 3000 W	900 W

XDG ULTRASONIC GENERATOR AND SCU SERVO CONTROL UNIT

You can find more information about the performance and features in the "Ultrasonic generators" product brochure



BENEFITS – Delivered again and again



e-DRIVE

Economical and very precise thanks to electric drive.



CALIBRATION

The force and amplitude can be calibrated.

FIELDS OF APPLICATION



AUTOMOTIVE



HIGH-TECH



PACKAGING



FOOD



NON-WOVENS & TEXTILES



MEDICAL



HOUSEHOLD



COSMETICS

**WELDING
PUNCHING
RIVETING
EMBOSSING
FLANGING
INSERTING
EMBEDDING
SEALING
CUTTING**

ELECTRICAL MOTION SERIES – Powerful and precise

BENEFITS



12" TOUCH COLOUR DISPLAY

Makes it easy to operate the machine and enter parameters. **Ergonomic and can be pivoted.** What's more, it displays a graphic or table showing the last welds.



SUITABLE FOR CLEANROOMS

The Electrical Motion 20 is certified to **ISO class 6** according to ISO 14644-1.

START POSITION CAN BE SELECTED AT WILL

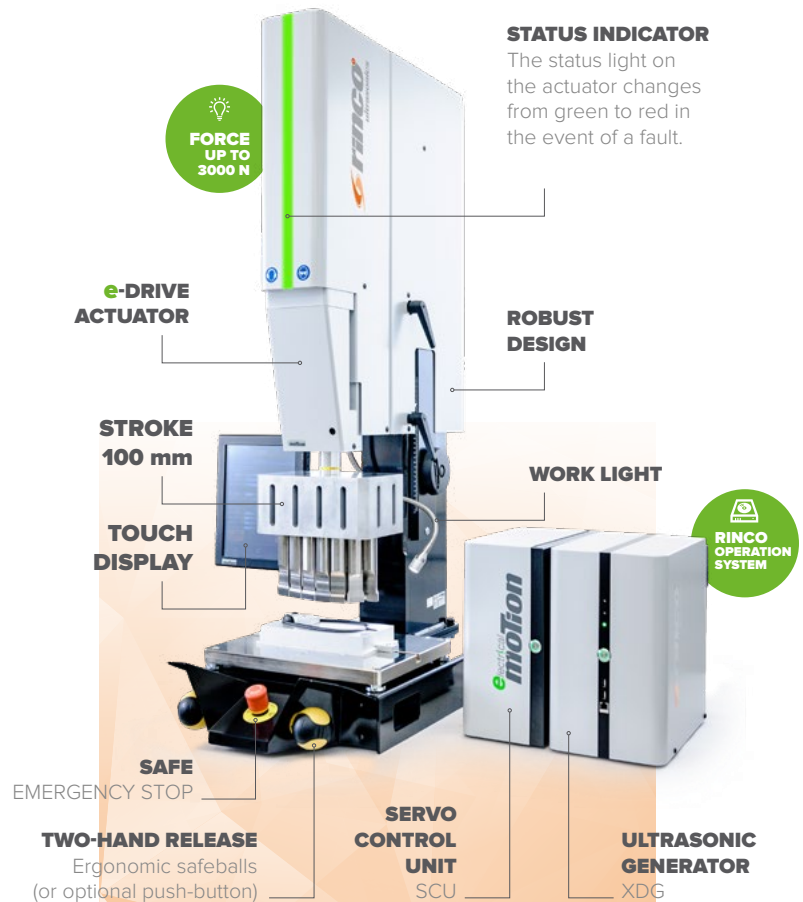
The **start position of the actuator** can be selected **at will**, reducing the cycle time significantly.

FREELY PROGRAMMABLE STROKE MOVEMENT

Optimise your welding process by adjusting the stroke movement of the application accordingly.

The following are freely programmable:

- Lowering speed
- Touchdown speed
- Welding process (up to 10 steps)
- Braking point
- Force profile
- Speed profile



QUALITY – Achieved and maintained

OUTSTANDING WELDING RESULTS

As the welding force, speed and amplitude can be precisely regulated, you can achieve outstanding welding results.

HIGH LEVEL OF QUALITY ASSURANCE

You can set a wide range of **limits** that issue a warning or stop the machine.



TRACEABILITY AND PROCESS RELIABILITY

All events and changes to the parameters are **automatically logged in the audit trail**. This ensures process reliability and traceability. The audit trail cannot be deleted.



INCREASE PROCESS RELIABILITY

A **part counter** and a **reject counter** are integrated into all ultrasonic welding machines in the Electrical Motion series. They can also be set as a limit.



HIGHEST LEVELS OF REPEATABILITY

The database for the two ultrasonic welding machines can store **as many parameter data sets** as required. It is also possible to **store welding data automatically** until the 500 GB memory is full.

SAFETY

PERFORMANCE LEVEL ■ PL E

Optimum safety for operators and maintenance personnel.

CE

All machines from the Electrical Motion series are CE-compliant and therefore correspond to the high European standards.

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.

LOTS OF INTEGRATION OPTIONS

Can be integrated into RINCO sound enclosures and RINCO workstations, for example.



3-YEAR WARRANTY

Excluding converter, booster and tools

ELECTRICAL MOTION SERIES

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ELECTRICAL MOTION SERIES

FUNCTIONS – Adjust individually

ADJUSTABLE AMPLITUDE

You can change the value for the amplitude between **40% and 100%** in 1% increments to achieve the best possible welding result.

8 WELDING MODES TO CHOOSE FROM

Thanks to the multitude of welding modes, you can find the right setting for every application, meaning that perfect welding is guaranteed. The following welding modes can be selected on the Electrical Motion series:



Time mode

W/S

Energy mode



W/S

Welding time AND/OR welding energy



Travel mode (absolute and differential)



Contact cut-off



Melting velocity



MELTING VELOCITY

This mode precisely controls the speed of the melting process.



HIGH-QUALITY TOOLS

We manufacture our tools according to our customers' specifications.



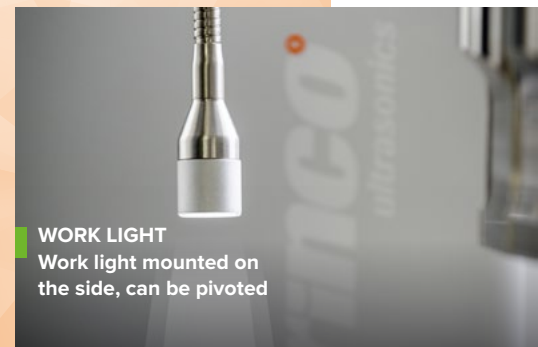
12" TOUCH COLOUR DISPLAY

Can be pivoted, resistive



TWO-HAND RELEASE

- Ergonomic safeballs (standard equipment)
- Push-button (optional)



WORK LIGHT

Work light mounted on the side, can be pivoted

MELTING PROCESS

The melting process can be split into 10 steps, meaning that it can be controlled precisely and creates an optimum welding result.

FORCE AND SPEED PROFILE

To optimise the welding process, a linear force build-up can be programmed.

AFTER-PULSE

To prevent lightweight workpieces from potentially getting stuck on the horn, an after-pulse can be activated.

TRIGGER (ULTRASONIC TRIGGER POINT)

The welding operation can be initiated using a trigger. A **force, time or travel point, a combined force and travel point or an external signal** can be set as a trigger.

The combined force and travel point combination can also be used for part detection, removing the need for any additional accessories.



DATA EXPORT

A data string can be exported via **RS232** to **log welding data**. The data can also be uploaded to a **USB stick**.



USER ADMINISTRATION

Multi-level user administration



REMOTE ACCESS SERVICE

Can be set up for **remote maintenance**. This allows quick and efficient troubleshooting by our RINCO after-sales service.



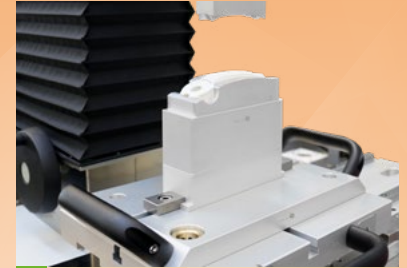
EFFICIENT RINCO
AFTER SALES SERVICE

You can find other features as well as options and accessories for the ultrasonic welding machines from the Electrical Motion series at the end of this brochure.

TOOL CHANGE

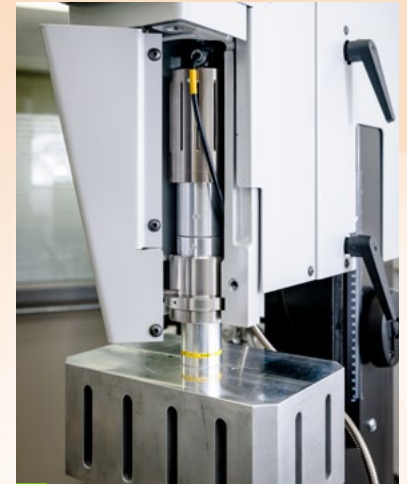
QUICK AND EASY

Thanks to the quick-change system, tools can be replaced **within just a few minutes**. The removable carriers are indexable.



CHANGE THE ANVIL

Easy to install and to change



CHANGE THE OSCILLATOR SYSTEM

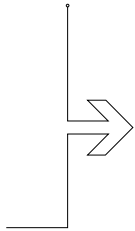
In just a few steps

ELECTRICAL MOTION SERIES

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**WE ARE
FOCUSED
COMMITTED
GLOBAL
LOCAL**



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FURTHER INFORMATION AT

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