

Ultrasonic Welding Machine Electrical Motion2 + XDG2/SCU2

electrical
moTion

NEW



Electrical Motion2-20-Safeballs



Electrical Motion2-20-Push Buttons



Electrical Motion2-35-Safeballs



Electrical Motion2-35-Push Buttons

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WHAT'S NEW?

The Electrical Motion2 is the next generation of the Electrical Motion. It contains all the features and functions of the previous version, plus:

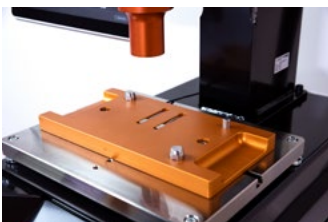
Completely revised user interface

- Even more intuitive
- High user experience
- Capacitive screen (can be operated with gloves)
- Authorizations can be assigned on a menu basis.
- Predefined user profiles (templates) that can be individually adapted to each user.

13.3 " TFT Colour touch screen in landscape format

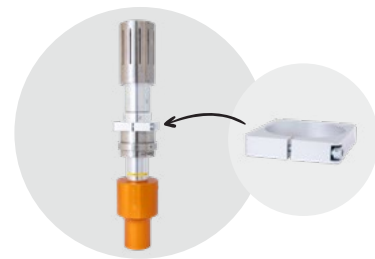
Integrated Contact Cut-Off

- For the Contact Cut-Off is only a cable needed, no box anymore.



Option: Quick Change System for anvils

- Sensors detect which exchangeable carrier is currently in place. The parameter data set is adjusted accordingly by the system.
- Up to 5 sensors (option) can be installed and up to 31 parameter data sets can be linked accordingly.
- See Video [here](#).



Option: Quick Change Tool System (QCTS)

- Optionally available is now a Quick Change Tool System, with which the oscillator system can be changed quickly and easily without having to reposition the sonotrode.
- The QCTS is retrofit, but not with the EM1.
- Further information can be found on page ► 5.

Additional USB interfaces

- 4 x USB 2
- 1 x USB 3
- For input and output of data and for maintenance work.

New welding mode:

MULTI MELT CONTROL

- replacing „Melting Velocity“
- Further information can be found on page ► 6

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Art-No	Designation	Link to myRinco
	20 kHz	
53035	Electrical Motion2-20- Safeballs	🔗
53036	Electrical Motion2-20- Push Buttons	🔗
53571	Electrical Motion2-20- SSK2	🔗
50995	Generator XDG2-20-2000-230	🔗
50996	Generator XDG2-20-3000-230	🔗
52079	Servo Control Unit SCU2-20-230	🔗
53736	Sound Enclosure SSK 2.0 EM2-Push Buttons	🔗
	35 kHz	
53044	Electrical Motion2-35- Safeballs	🔗
53045	Electrical Motion2-35- Push Buttons	🔗
53570	Electrical Motion2-35- SSK2	🔗
51001	Generator XDG2-35-900-230	🔗
52077	Servo Control Unit SCU2-35-230	🔗
53736	Sound Enclosure SSK 2.0 EM2-Push Buttons	🔗

► The actuators will be released for sale at a later date.

PURPOSE

- To weld and punch thermoplastic parts
- To cut, weld, punch and seal non-wovens, textiles and technical textiles

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FEATURES / ADVANTAGES:









- ✓ **Servo drive** and therefore economical → **78 % savings in energy costs** compared to a comparable pneumatic ultrasonic welding machine
- ✓ Start position of the actuator is freely selectable, what leads to a shorter welding cycle
- ✓ Better welding and cutting results as the actuator can be positioned more precise and the parameters for force, speed and amplitude can be selected more precise
- ✓ Parameters, trigger and braking point can be adjusted independently of each other
- ✓ 8 welding modes are selectable
 - Welding time
 - Welding energy
 - Welding time AND/OR welding energy
 - Welding travel (absolute or differential)
 - Contact cut-off
 - Multi Melt Control
- ✓ Stable and fast software (Linux)
- ✓ User can be organized hierarchically and fully independently
- ✓ Fully controllable melting process (10 steps)
- ✓ Audit trail function for quality control, highest reproducibility and traceability
- ✓ Remote access service for a faster trouble shooting. Team Viewer is preinstalled.
- ✓ ISO Class 6 certified according to ISO 14644-1
Good to know: 5 = best / 9 = worst. Please find more information [here](#).
- ✓ Two-hand-start with safeballs or optionally with push buttons
- ✓ Precise control of the welding parameters and thus also of the weld
- ✓ 3 years warranty
- ✓ Quick Change Tool System
- ✓ CE-conform
- ✓ Force sensor and amplitude can be calibrated
- ✓ The amplitude can be changed in 1% steps between 40 and 100 %.
- ✓ Trigger modes:
 - Time
 - Travel
 - Force
 - off
 - external signal
 - Travel absolute and force
- ✓ Save welding data on the internal hard disk, network or on an external storage medium

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- ✓ Many interfaces:
 - 1 x USB 3.0
 - 4 x USB 2.0
 - 2 x Ethernet
 - 20 x Digital Outputs, of which 3 are freely programmable
 - 1 x Analogue I/O
 - 1 x RS232

- ✓ Highest Performance Level - PL e.
The Performance Level is a official measure for the reliability of the technical safety function on the machine. PL a = lowest level; PL e = highest level.

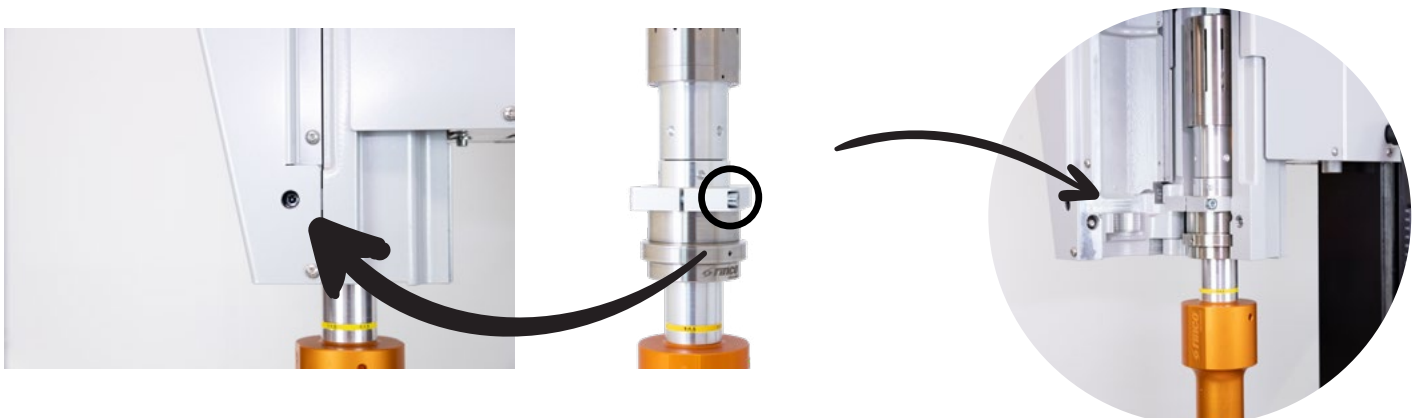
APPLICATION FIELDS

✓  Automotive	✓  High-Tech	✓  Packaging	<input type="checkbox"/>  Food
✓  Non-woven & Textile	✓  Medical	✓  Household	✓  Cosmetics

OPTION: QUICK CHANGE TOOL SYSTEM (QCTS)

- ✓ For easy replacement of several oscillator systems.
- ✓ Self-positioning of the oscillator system after a change, only the height of the actuator must be adjusted.
- ✓ Quick change tool / SMED (Single Minute Exchange Device)
- ✓ When setting up for the first time, a hole on the side helps to tighten the sonotrode orientation.
- ✓ The Quick Change Tool System **cannot be retrofitted to existing machines.**
- ✓ Optionally available

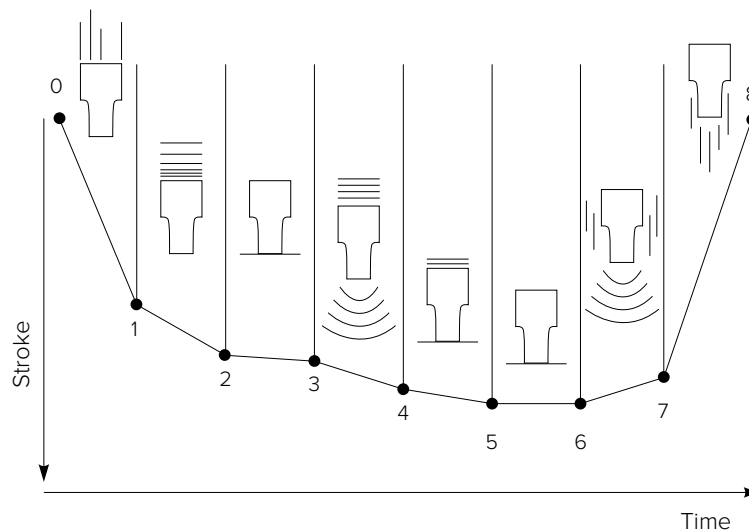
For detailed information please consult the instruction manual in myRinco.



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MULTI MELT CONTROL - NEW WELDING MODE

The Multi Melt Control welding mode is the further development of the Melting Velocity welding mode. In addition, steps can now also be defined without active ultrasound (see step 4-5 / 5-6 in the drawing below). For example to push or maintain the part for a certain distance or time and later again ultrasound activation for a certain mode.



ACCESSORIES

Electrical Motion2:

- Foil transport
- Adapter for touch screen (when using foil transport)
- Colum extensions
- Handheld scanner and stationary scanner to link the part to the welding result.
- SSK (Sound Enclosure)
- Mainenance kit
- Tool case

XDG2/SCU2:

- Serial Interface Cable RS232 m/f
- Contact Cut-Off Cable
- Adapter RS232-USB
- Plug DSub 25 Pole X1 Output
- Socket DSub 25 Pole X2 Input

For more information please consult myRinco

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NOTE WHEN ORDERING

- Generator XDG2, servo control unit SCU2, converter and booster have to be ordered separately.
- With all generators the interface plug has to be ordered separately.

PRICE & DELIVERY TIME:

Prices and delivery times on request.