

15.07.2026

Electrical Motion2-20-Safeballs

Art. No. 53035

The Electrical Motion2-20 is the perfect partner for complex ultrasonic welding operations that demand maximum precision and great flexibility. Thanks to the electric drive and the fact that the welding force, speed and amplitude can be regulated exactly, you can achieve outstanding welding results. The trigger and braking point parameters can be regulated independently of one another. Events and changes are logged in the audit trail, which cannot be deleted, meaning that traceability and process reliability are guaranteed. The two-hand start is equipped with ergonomic safeballs. The Electrical Motion2-20 is ideal for welding and punching thermoplastics, non-wovens and textiles of medium to large size. Thanks to the optional quick-change system, tools can be replaced within just a few minutes. This minimises the risk of errors. The removable carriers are indexed. For maximum traceability, a part scanner can be optionally used with the generators of the XDG series. The scanner is available as wireless handheld scanner or as a stationary scanner for hands free scanning.



Variants

- Electrical Motion2-20-Pushbuttons
- Electrical Motion2-20-SSK2

Specifications

Technical Specifications

Operating Frequency	20 kHz
Drive Energy	Electrical
Drive Type	Motor Driven
Height Adjustment	Range: 0 - 280 mm Info: using height adjusting mechanism
Maximum Force	3000 N
Maximum Stroke	100 mm
Parallel Alignment	Horn / anvil using the table top with 4 parallel adjusting nuts
Rails	Spherical linear rails on the actuator. Dovetail rails on the column.
Servo Control Unit	Servo Control Unit SCU2-20-230
Stroke Movement	Advance and set down speed is freely programmable Braking point is freely programmable Force profile is programmable
Throat Depth	205 mm from the centre line of the horn to the column
Tool Fitting	Horn: Screwed with booster and clamped using swing door. Optionally available is a Quick Change Tool System (QCTS), with which the oscilliator system can be changed quickly and easily without having to reposition the sonotrode. Anvil: With special clamping jaw and T-slot, flange 6 mm. Rigid steel base plate with levelling bolts for fixing and precisely aligning the anvil optionally available.
Travel Measurement	Controlled by servo control unit Accuracy ± 0.01 mm
Manual Activation	Two-hand start

Features

Audit trail	Yes
Calibration	Amplitude, Force
Oscillator System Self Diagnose	Yes
Overheat Control	Yes
Part Counter	Yes
Power Overload Protection	Yes
Remote Access	Internal, External
Soft Start, Soft Stop	Yes
Trigger	With force sensor (force) and motor encoder (travel)
User Administration	Yes Authorizations can be assigned on a menu basis. Predefined user profiles (templates) that can be individually adapted to each user.

Communication and Interfaces

Data Export	USB, Ethernet
Operator Interface	13.3 " TFT Colour touch screen in landscape format
Language	English, German, French, Italian, Spanish

Standards

Safety	- CE - Performance Level PL e - Emergency stop
IP Class	IP 20
Standards	- EN 61000-6-2 - EN 61000-6-4 - EN ISO 12100 - EN 60204-1 - EN ISO 13850 - EN ISO 13849-1 - EN ISO 13857 - ISO Class 6 - EN ISO 13854 - EN ISO 13851
Clean Room Compatible	ISO class 6

Dimensions and Weight

Dimensions W × D × H	572 x 755 x 1372 mm
Weight	135 kg

Warranty

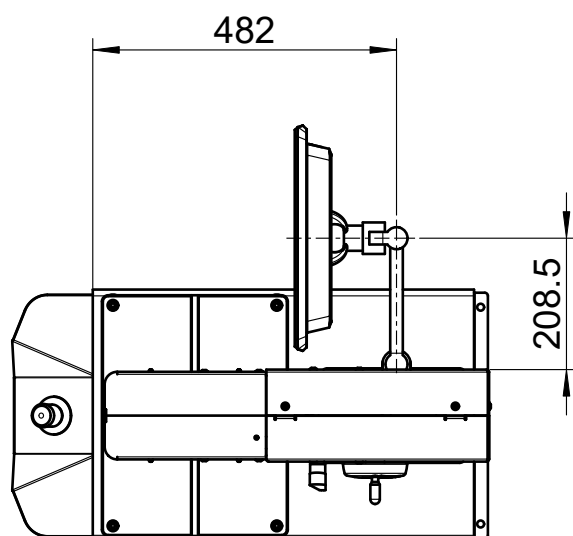
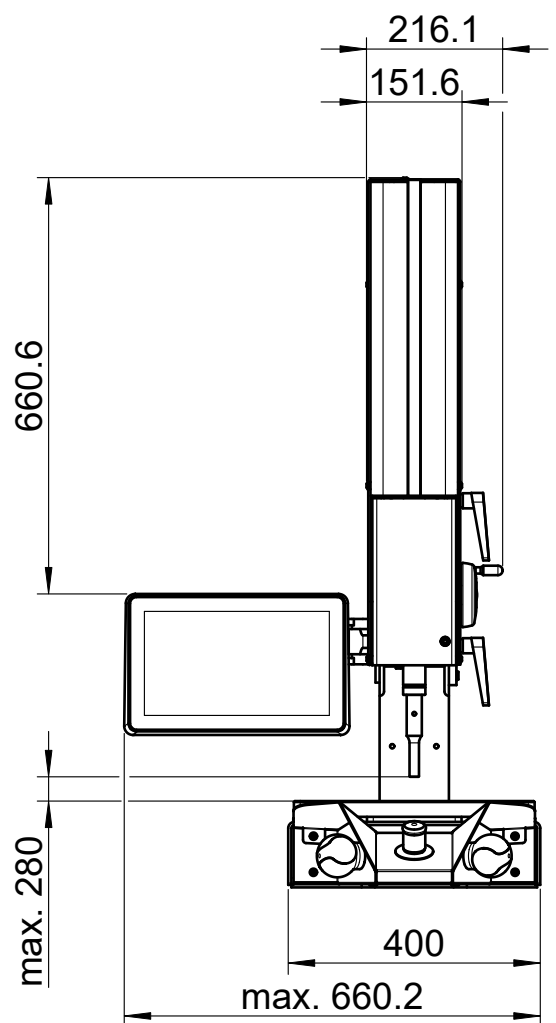
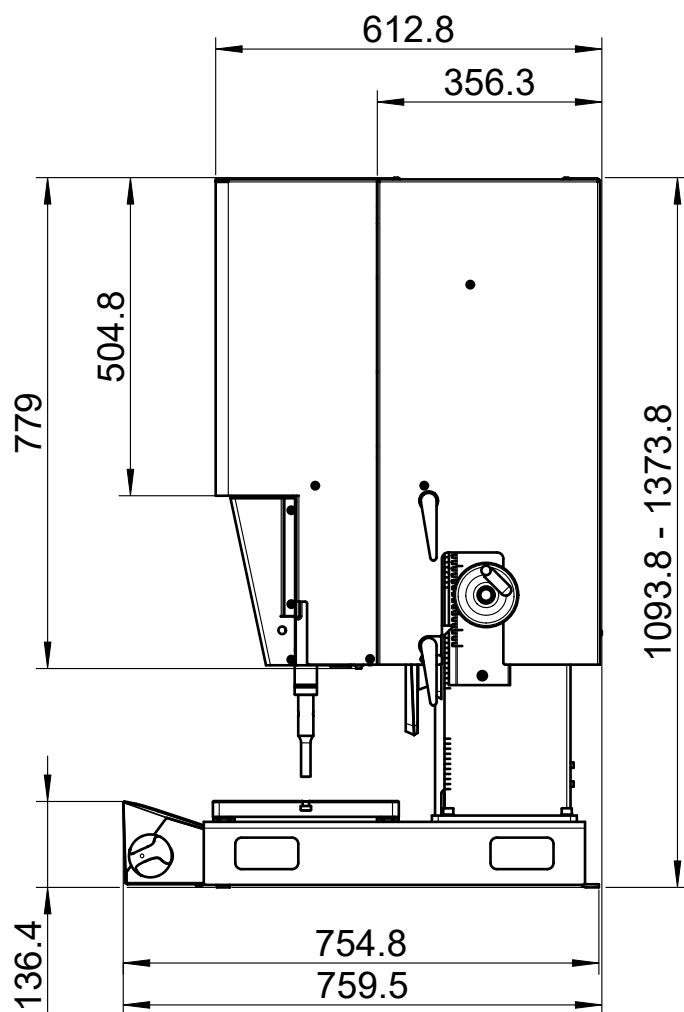
Warranty	3 Years
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Compatibility / Accessoires

Compatibility	- C20-12 (unamplified, slitted housing)
	- Booster 20 kHz 1:0.5 Al
	- Booster 20 kHz 1:0.8 Al
	- Booster 20 kHz 1:1 Al
	- Booster 20 kHz 1:1.5 Al
	- Booster 20 kHz 1:1.75 Al
	- Booster 20 kHz 1:0.8 Ti
	- Booster 20 kHz 1:1 Ti
	- Booster 20 kHz 1:1.5 Ti
	- Booster 20 kHz 1:1.75 Ti
	- Booster 20 kHz 1:2 Ti

Compatible Generator	- XDG2-20-3000P-230
	- XDG2-20-2000P-230
	- Servo Control Unit SCU2-20-230

Accessoires	- Adapter for Touch Screen Electrical Motion2 / VEM2
	- Column Extension L:100 mm 20 kHz Electrical Motion2 / VEM2
	- Column Extension L:200 mm 20 kHz Electrical Motion2 / VEM2
	- Column Extension L:300 mm 20 kHz Electrical Motion2 / VEM2
	- Foil Transport Electrical Motion2 / VEM2 - fixation to column
	- Handheld Scanner - Electrical Motion2
	- Maintenance kit for Electrical Motion2 and VEM2 cylinder
	- Quick Change Tool System Ring 20 kHz
	- Stationary Scanner - Electrical Motion2 / VEM2
	- Tool Case 20 kHz



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Presse EM-2 20 kHz m. Safeballs

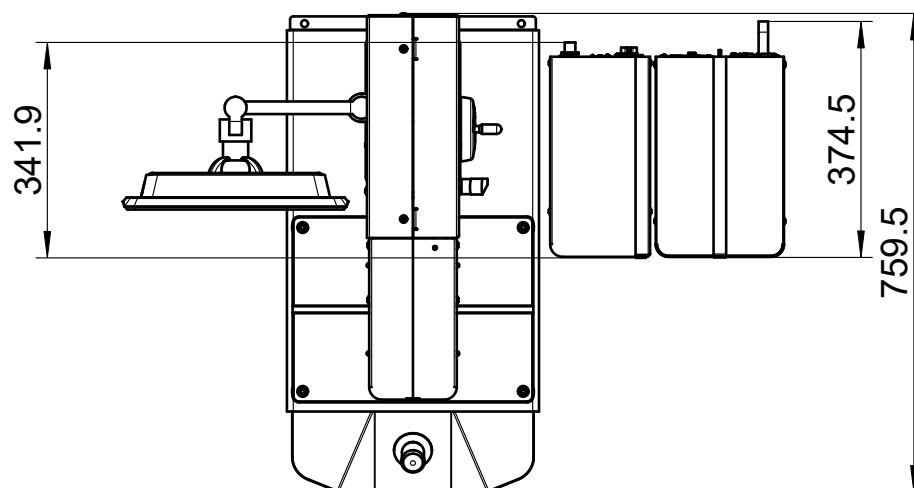
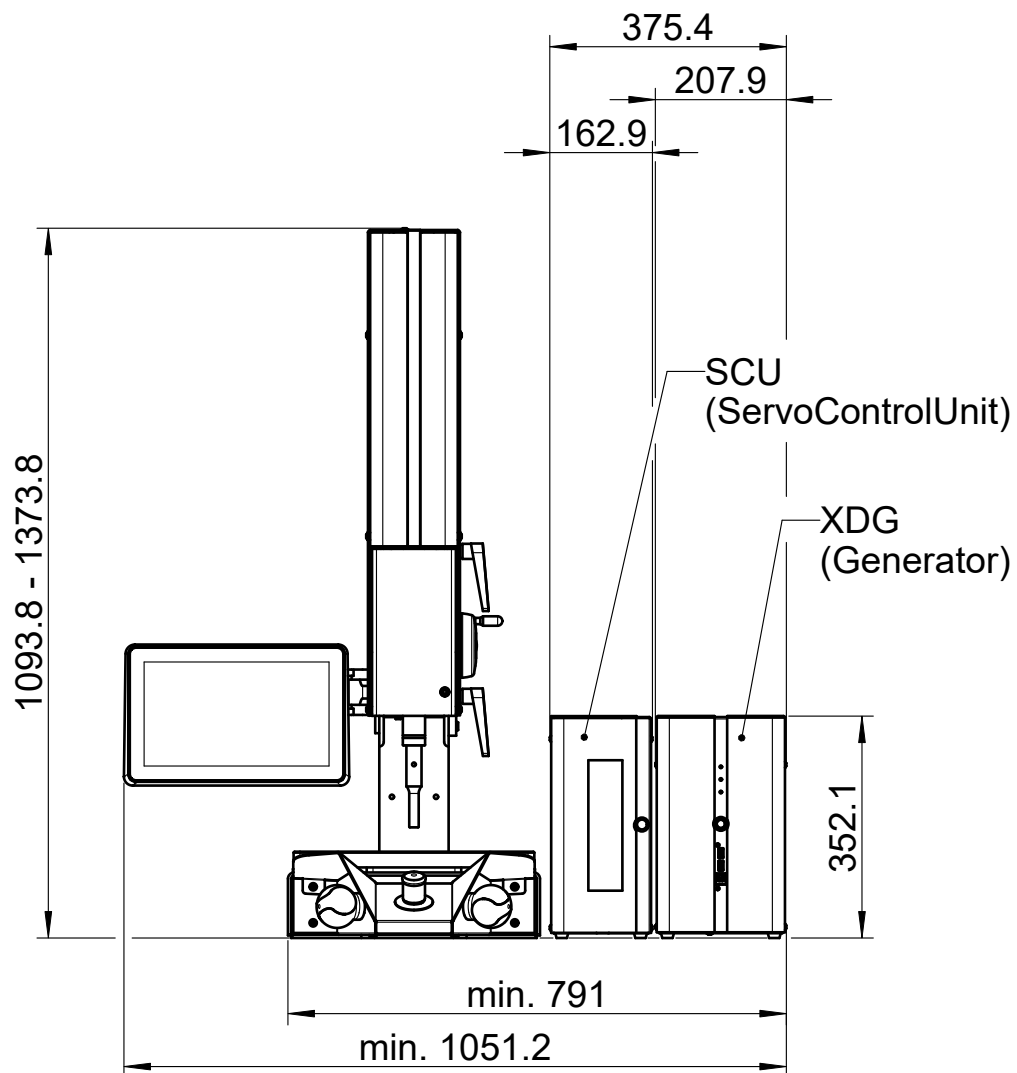
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