902

FOR FREQUENT TOOL CHANGE

INPUT

Power supply	**[50HzThree-phases+N+GND]**	400V a.c.
Pneumatic power (min.)	**[bar]**	5
Max. power required (peak load)	**[kW]**	16
Power consumption	**[kWh]**	

OUTPUT

Generator power	**[kW]**	16
Vibration frequency	**[Hz]**	220-245
Vibration amplitude	**[mm]**	0,4-1,8
PP equivalent welding area[1]	**[cm²]**	400
Upper tool weight (max.)	**[kg]**	50
Mirror tool weight	**[kg]**	N.A.

CONTROL

PLC Control		ET 200 SP Open Controller
HMI		Touch panel 12”
Vibration frequency tuning[2]		Continuous REALTIME
Welding steps (pressure, amplitude)		8
Welding depth sensitivity	**[mm]**	0,05
Work settings memory		63 automatic equipment
Type of communication[3]		Profinet/Profibus

REFERENCES

Noise level[4]	**[dBA EN ISO 11202]**	≤ 80
Work outcome definition		Automatic (good/reject)
Work outcome printer		Custom Plus
Vacuum circuit		2 (opt. up to 3)
Pneumatic valves movements		5
Remote-assistance		Optional

[1]Size of the area detected in the test environment.

[2]Thanks to our third-generation controller we have been able to eliminate the necessity of the auto-tuning cycle: the machine can adapt to the vibration frequency in real-time following the mechanical reactions of the vibrating system. Therefore, the outcome is a neater and more efficient vibration than the one obtained employing second-generation old systems.

[3]The digital generator ensures very short swing on/off vibration phases (50 ms).

[4]Peak values can be higher for short periods depending on the application.

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The machine can be customized with some standard options. Contact us for personalized offer.

Vibration welding melts thermoplastic surfaces through friction, creating strong bonds without external heat.

FREQUENT TOOL CHANGE
For particularly high components and very quick and frequent tool change

MORE INFO

CEMAS elettra

YOUR PARTNER
IN PLASTIC JOINING

Vibration Welding Strong Points

Real-time tuning
Wide rear opening
Soundproof structure
Quick vibration stop
Compact and complete
Always available
63 tool memories

CEMAS Elettra is the only Italian company that design and build vibration welding machines.

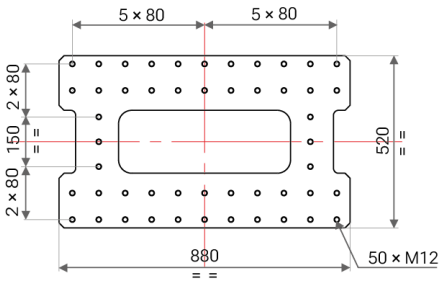
MORE INFO

YOUR PARTNER IN PLASTIC JOINING

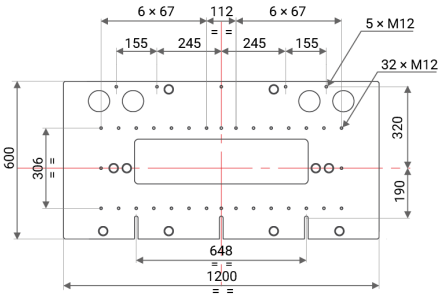
MECHANICAL DATA

Vibration plate dimensions	[mm]	880x520
Lower plate max. dimensions	[mm]	
Lifting table stroke	[mm]	900
Lifting table maximum speed	[mm/s]	250
Clamp net force (gross)	[kN]	15 (19)
Lifting table dimensions	[mm]	1200x600
Lifting table height	[mm]	610
Front-door span	[mm]	945x1185
Upper door threshold	[mm]	1790
Clearance between planes	[mm]	1170
Overall dimensions (WxDxH)	[mm]	2750x1210x2415
Total weight	[kg]	4500
Hydraulic oil	[kg]	55
Machine type		Hydraulic

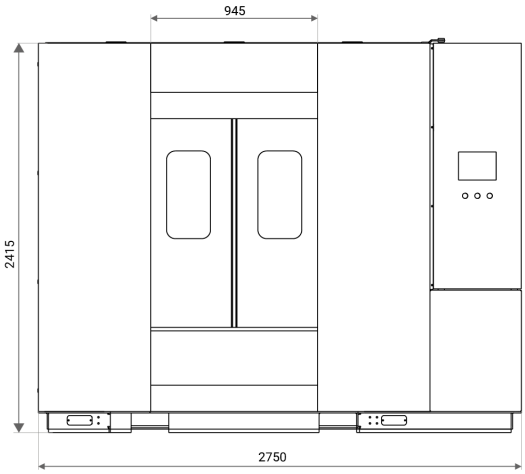
UPPER PLATE

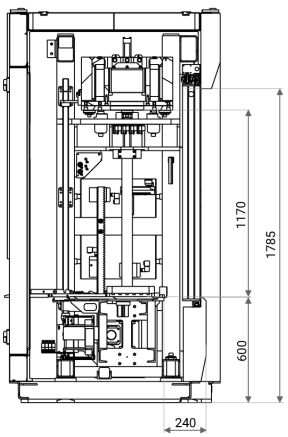


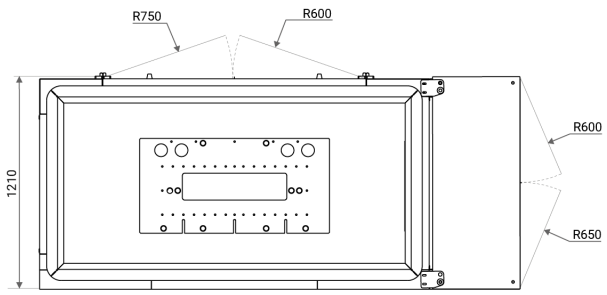
LOWER PLATE



OVERALL DIMENSIONS







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