V I B R A T I O N W E L D E R

240Hz

901IR

SMALL AND EFFICIENT

INPUT

Power supply	**[50HzThree-phases+N+GND]**	400V a.c.
Pneumatic power (min.)	**[bar]**	5
Max power required (peak load)	**[kW]**	14

OUTPUT

Upper tool weight (up to)	**[up to kg]**	50
Generator power	**[kW]**	16
Vibration frequency	**[Hz]**	220-240
Vibration amplitude	**[mm]**	0,4-1,8
PP equivalent welding area *Size of the area detected in the test environment*	**[cm²]**	300

MECHANICAL DATA

Vibration plate dimensions	**[mm]**	880×520
Lifting table stroke	**[mm]**	500
Lifting table maximum speed	**[mm/s]**	500
Clamp net force (Gross)	**[kN]**	15 (19)
Lifting table dimensions	**[mm]**	1014×720
Lifting table height	**[mm]**	1000
Front-door span	**[mm]**	1050×750
Upper door threshold	**[mm]**	1755
Clearance between planes	**[mm]**	700
Overall dimensions	**[W×D×H mm]**	2330×1810×2170
Total weight	**[kg]**	3800
Hydraulic oil	**[Lt/ISO32]**	-
Machine Type		HYBRID[1]

CONTROL

PLC Control		Siemens S7 - open controller
HMI		PC panel 12"
Vibration frequency tuning[2]		Continuous REALTIME
Welding steps	**[pressure, amplitude]**	8
Welding depth sensitivity	**[mm]**	0,01
Work settings memory		63 automatic equipment
Type of communication *The digital generator ensures very short swing on/off vibration phases (50ms)*		Profinet/Profibus

REFERENCES

Work outcome definition		Automatic (good/reject)
Work outcome printer		Custom Plus
Vacuum circuit		2 (opt. up to 3)
Pneumatic valves movements		10
Remote-assistance		Included
Automatic rear door (for rear loading/unloading)		N.A.
Noise level *Peak values can be higher for short periods depending on the application.*	**[dBA EN ISO 11202]**	≤ 80

[1] *Hybrid technology obtained from the use of vibration and infrared welding.*

[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.*

The machine can be customized with some standard options, contact us for a personalized offer.

MORE INFO

CEMAS elettra
YOUR PARTNER IN PLASTIC JOINING
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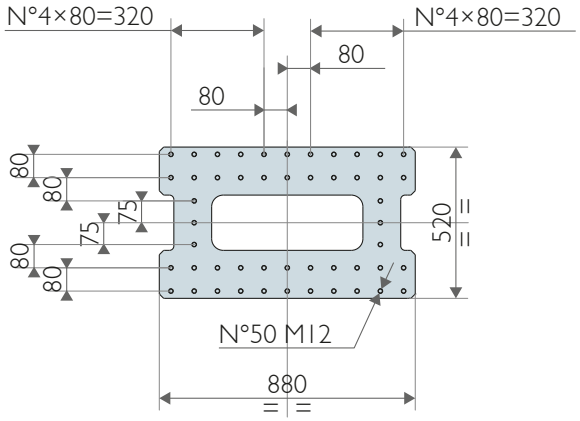
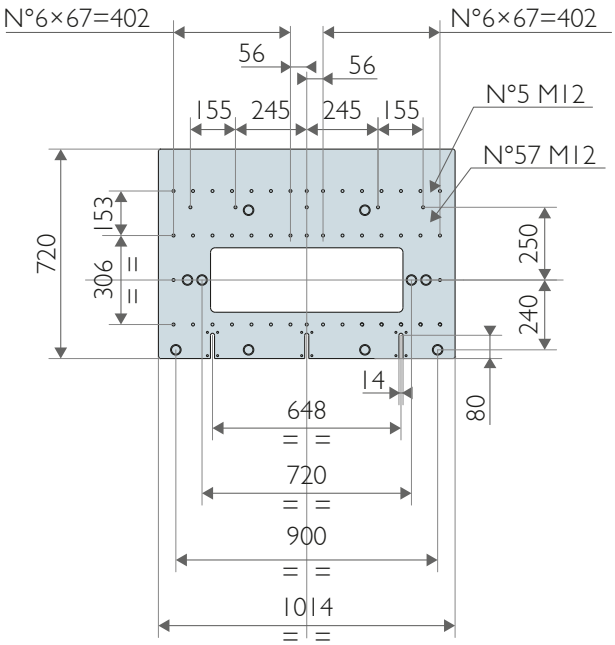
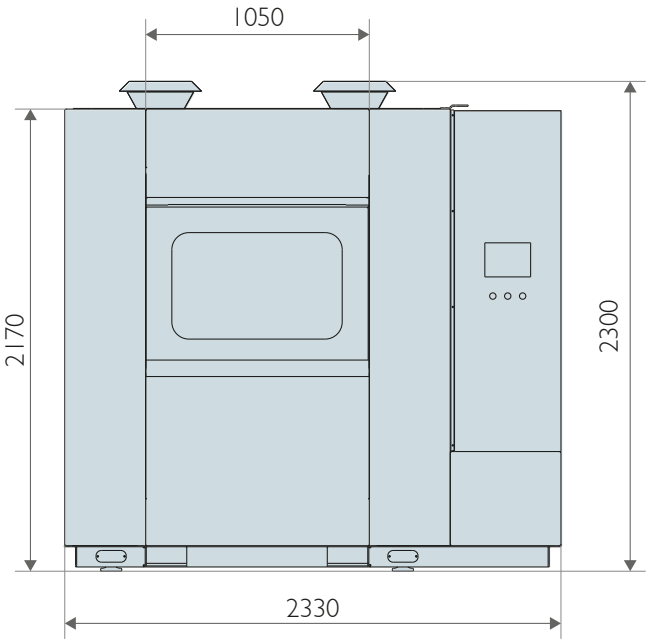
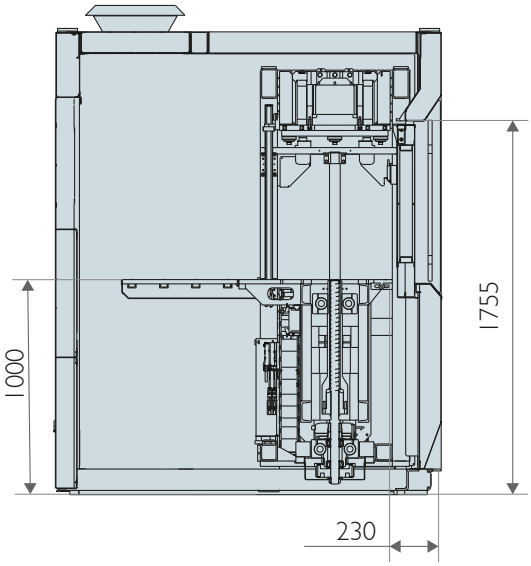
UPPER PLATE

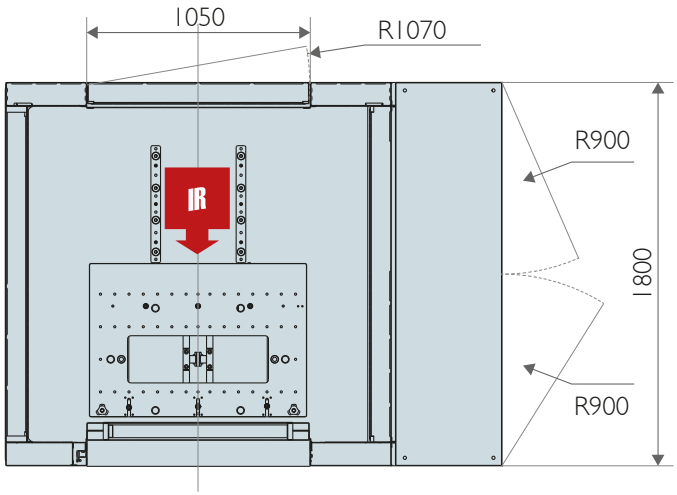


LOWER PLATE









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