

INPUT

Power supply	[50HzThree-phases+N+GND]	400V a.c.
Pneumatic power (min.)	[bar]	5
Max. power required (peak loa	ad) [kW]	27
Power consumption	[kWh]	
OUTPUT		
Generator power	[kW]	18
Vibration frequency	[Hz]	220-240
Vibration amplitude	[mm]	0,4-1,8
PP equivalent welding area1	[cm ²]	400

[kg] 75

[kg] 0

CONTROL

Mirror tool weight

Upper tool weight (max.)

ET 200 SP Open Controller
Touch panel 15"
Continuous REALTIME
8
[mm] 0,05
63 automatic equipment
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

¹Size of the area detected in the test environment.

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



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

BORN HYBRID
It combines vibration and infrared technology within a compact body

MORE INFO





YOUR PARTNER
IN PLASTIC JOINING

²Thanks 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.

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

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

VIBRATION TECHNOLOGY

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





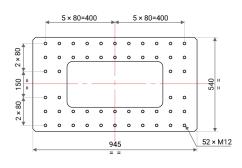
YOUR PARTNER
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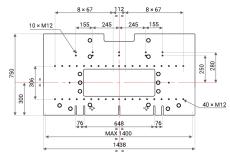
MECHANICAL DATA

Vibration plate dimensions	[mm]	945x540
Lower plate max. dimensions	[mm]	1315x540
Lifting table stroke	[mm]	500
Lifting table maximum speed	[mm/s]	500
Clamp net force (gross)	[kN]	18 (23,3)
Lifting table dimensions	[mm]	1438x750
Lifting table height	[mm]	1000
Front-door span	[mm]	1410x750
Upper door threshold	[mm]	1720
Clearance between planes	[mm]	700
Overall dimensions (WxDxH)	[mm]	3420x1830x2345
Total weight	[kg]	6200
Hydraulic oil	[kg]	N.A.
Machine type		Full electric

UPPER PLATE

LOWER PLATE





OVERALL DIMENSIONS

