



Cutting edge technology and full equipment as a standard

NO COMPROMISE For quality



All components used by CEMAS are from world leading suppliers and never sub-brands.

Safety is our ultimate goal, as well as a prompt availability of spares worldwide.

ERGONOMIC LOADING STATION

Special care was devoted to the manual loading steps of the process, both for small and large machines: to minimize effort on the backbone, the loading/unloading area was kept as close as possible to operator. There are no machines of the same class available on the market where this distance is so small.

SAFE

Light curtains are fitted as a standard to ensure maximum operator safety, further to decreasing the total cycle time of each welding. Light curtains are integrated to protect them against collisions and as a result of an extremely accurate and well defined design.

WIDE REAR OPENING

Since the very beginning, all our vibration range was conceived to get tool change from the back of the machine, as maintenance door opening size always exceeds the width of the press bed.





COMPACT BUT COMPLETE

CEMAS machines are the most compact machines available on the market, keeping engineering and vibration features unchanged, thus favoring ergonomics.



HIGHLY CUSTOMIZABLE

Many standard features included in our machines are optionals for competitors and, should this not be enough, just turn the page to discover a full range of over 60 optionals for your tailor-made machines.



EASY MAINTENANCE

The use of the latest-generation electronic components has resulted in a remarkably smaller control panel, and in positioning the hydraulic unit below the control panel for the 240 Hz machines. This change has totally cleared an inner compartment and has made tooling maintenance and set up operations easier.



CLEAN AND QUIET

Hydraulic power-plant outside the working area.







INNOVATIVE OPERATOR INTERFACE SYSTEM

Accurate does not mean complicated: no other machine on the market is so "user friendly".

We have made a big effort in designing our video graphic to simplify any operation. Actually, there would be no need for operator's training.

- Switching to your language is as simple as pressing a key
- Parameters can be set to include up to 8 different welding steps
- Tool movement graphic programming: no need to call us for a new tool!
- Monitoring of the "just in time" process by displaying welding diagrams
- Constantly linked to CEMAS through the Teleservice system for diagnostics and customer's service on line







Tool programming





Production screen

Graph screen

Statistical analysis

63 TOOL MEMORIES

The machine can store up to 63 different equipment parameters, of which 31 are automatically acknowledged. Data can be easily copied to other machines if needed.



REALTIME TUNING

Our innovative generator is able to adjust the vibration frequency with no autotuning procedure. Internal values are checked and updated every 5ms to constantly ensure a perfect match of the equipment with the machine.

QUICK VIBRATION STOP

This cutting edge feature can zero the vibration in less than 50 ms, for a more homogeneus and resistant joint.



STOP

ALWAYS AVAILABLE

Our standard machines are always available and can be rent to face even the most stringent production requirement in case of sudden demand increase.



ENERGY SAVING TECHNOLOGY



Big welding area and low power required: this is energetic efficiency!

Top quality and cost-effectiveness



SMALL And Efficient

911

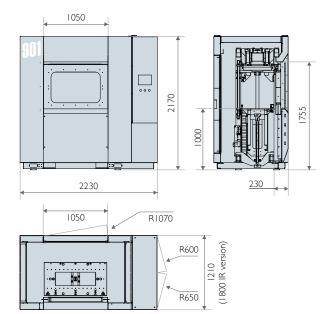
The smallest of its range. This machine is designed to weld tiny components by applying even a slight pressure, as well as more challenging parts.

Ideal for welding small-to-medium size taillights, intake manifolds, glove boxes, and spray-arms.

Available in 4 models, to include either an infra-red pre-heating or a hot plate type, it can be enriched with many optionals to ensure ultimate customizing.

As all the other CEMAS vibration machines, it is extremely compact in size when compared to the inner working area

available.

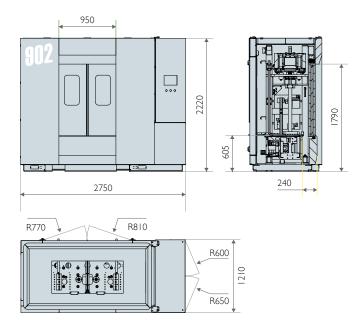


		ST	HL	SC	IR
UPPER TOOLING WEIGHT	(up to Kg)	35	50	50	50
WELDING CAPACITY *	(cm² PP)	300	400	300	300
CLAMP FORCE **	(KN)	15 (19)	15 (19)	18,8 (23)	17,5 (23)
LIFT TABLE SPEED	(mm/sec)	250	250	500	250
WORKING CLEARANCE	(mm)	200/700	200/700	200/700	200/700
VIBRATING HEAD	(mm)	880×520	880×520	880×520	880×520
LIFT TABLE	(mm)	1020×540	1020×540	1020×540	1020×700



Same performances as the 901HL model, with a very wide press opening and preset for quick tool change from rear. It comes in one version, only the High Level type, without any compromise.

This machine can be used for particularly high components and very quick and frequent tool change.



HL

UPPER TOOLING WEIGHT	(up to Kg)	50
WELDING CAPACITY *	(cm² PP)	400
CLAMP FORCE **	(KN)	15 (19)
LIFT TABLE SPEED	(mm/sec)	300
WORKING CLEARANCE	(mm)	270/1070
VIBRATING HEAD	(mm)	880×520
LIFT TABLE	(mm)	1200×540





The most popular machine of its range.

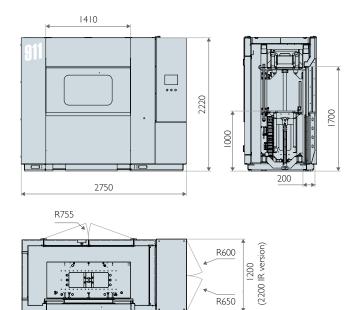
Ideal for welding large taillights and intake manifolds, spoilers, etc.

The most versatile of its range, the machine comes in 4 versions and can be customized with 50 different accessories to meet the most stringent requirements for full customer's satisfaction.

One of the strengths of this welding machine is the capability of handling highly sophisticated operating cycles while still being extremely user's friendly.

Such features, common to all the other CEMAS vibration ma-

chines, are acknowledged and valued by all our customers worldwide. For its unrivalled speed performances, the SC (Servo Controlled) model is the best choice for heavy production volumes.



		ST	HL	SC	R
UPPER TOOLING WEIGHT	(up to Kg)	75	90	75	75
WELDING CAPACITY *	(cm² PP)	400	500	400	400
CLAMP FORCE **	(KN)	18 (23,5)	18 (23,5)	21 (26,5)	20 (26,5)
LIFT TABLE SPEED	(mm/sec)	250	250	500	250
WORKING CLEARANCE	(mm)	200/700	200/700	200/700	200/700
VIBRATING HEAD	(mm)	945×540	945×540	945×540	945×540
LIFT TABLE	(mm)	1400×600	1400×600	1400×600	1400×800



1

g11

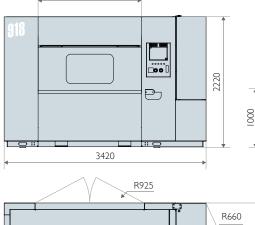
240Hz 918

BIG INSIDE

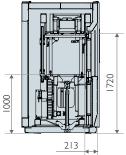
Stems from the need to weld those same products welded by 901 and 911 machines, but that, given their special features, require a strong welding force within an increased workspace: big components (spoilers), prestigious parts (PAB chutes), double figure (intake manifolds and rear lamps).

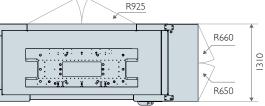
Therefore we have thought and designed a machine with the same technical characteristics of the 911 HL, with a broadened working surface; essentially, a larger and more capacious weld-

ing machine, that still works at 240Hz.



1750





ST IR

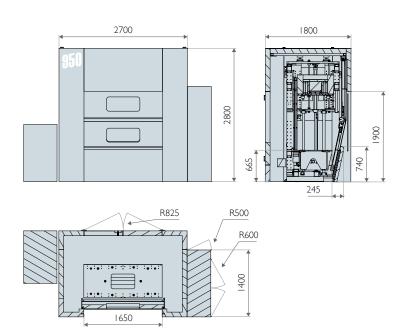
		-	-	
UPPER TOOLING WEIGHT	(up to Kg)	90	90	
WELDING CAPACITY *	(cm² PP)	500	500	
CLAMP FORCE **	(KN)	17 [23,5]	20 (26,5)	
LIFT TABLE SPEED	(mm/sec)	250	250	
WORKING CLEARANCE	(mm)	200/850	200/850	
VIBRATING HEAD	(mm)	945×540	945×540	
LIFT TABLE	(mm)	1700×650	1700×650	





120 Hz machine, highly sturdy for welding large components. Ideal for a small-to-medium sized dashboards. It can also be used for welding washing machine drums.

The machine comes in two versions, Standard and High Level. Due to a thorough ergonomic study, CEMAS's machines are among the best currently available on the market. Since the very beginning, we have succeeded in offering to our customers machines having a load position as close as feasible to the work area. Our 950 is no exception to the rule.



ST HL **UPPER TOOLING WEIGHT** (up to Kg) 150 180 WELDING CAPACITY * (cm² PP) 650 750 **CLAMP FORCE** ** (KN) 38 (43) 38 (43) LIFT TABLE SPEED 250 250 (mm/sec) WORKING CLEARANCE *** 300-700/1100-1500 300-700/1100-1500 (mm) **VIBRATING HEAD** (mm) 1100×580 1100×580 LIFT TABLE 1600×700 1600×700 (mm)

2000



POWERFUL AND RELIABLE

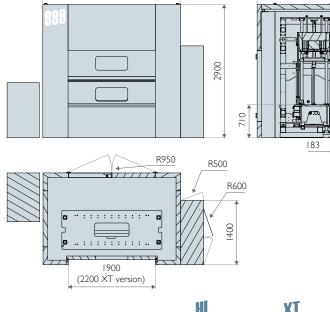
87

This is the largest machine and can be used for large dashboards, pallets, outdoor furniture.

Equipped with an electrical transfer table as a standard series feature, it can clear every undercut and make loading/unloading operations easier.

The XT version (EXTEND-ED) is even bigger. Its keeps the same standards of precision and power of the 999 HL machine, but within an increased body, designed for very special

and oversized components.



3000 (3300 XT version)

3]
00-1500
00
50



BORN HYBRID

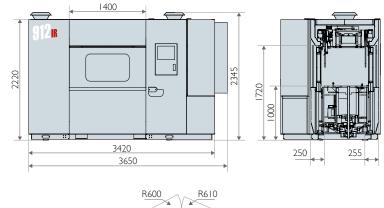
The most advanced in the range, it combines two of the most complex welding technologies, vibration/infrared, within a compact body.

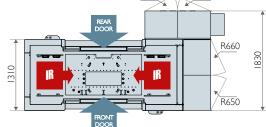
It is equipped with infrared emitters, housed on the right and on left of the press; they leave the rear of the machine empty and customizable with a rear sliding door.

By interfacing with anthropomorphous robots, it can achieve significantly reduced cycle times.

All the movements are driven by electric, servo-controlled motors, and this allows the machine not only to meet the highest standards

> of cleanliness, but also to achieve unmatched levels of speed and accuracy. Its hybrid nature, both extremely versatile very precise, makes this machine a one-of-a-kind.





		K
UPPER TOOLING WEIGHT	(up to Kg)	75
WELDING CAPACITY *	(cm² PP)	400
CLAMP FORCE **	(KN)	21 (26,5)
LIFT TABLE SPEED	(mm/sec)	500
WORKING CLEARANCE	(mm)	200/700
VIBRATING HEAD	(mm)	945×540
LIFT TABLE	(mm)	1400×600

Vibration Goes Hybrid!



Space saving solution

Fully modular

Smart design

Easy maintenance

V

V

~

V

Each medium wave emitter is operated by its own inn controller



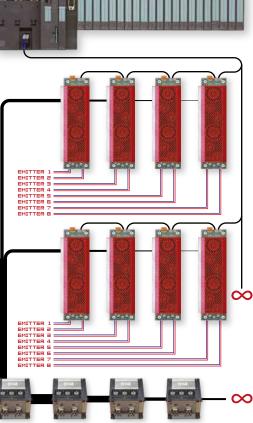
Proprietary technology that allows the inn to retrofit existing third party machines via serial I/O sockets

The ultra fast protocol communication enables a FULLY DIGITAL MODULAR ARCHITECTURE

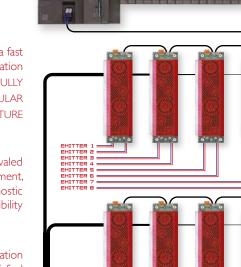
> For unrivaled management, diagnostic and flexibility

Any application can be satisfied

The IRM control modules are powered by specifically designed power units



Even the electrical power system is COMPLETELY MODULAR and can be freely configured based on your specifical power needs with VIRTUALLY NO LIMITS







Mexico CEMAS México mexico.sales@cemaselettra.com



Turkey CEMAS Türk turkey.sales@cemaselettra.com

Germany CEMAS Germany

info@cemas-germany.com



Brasil CEMAS do Brasil info@cemasdobrasil.com.br



China CEMAS China china.sales@cemaselettra.com

TECHNICAL AND COMMERCIAL OFFICES 0



France CEMAS France france.sales@cemaselettra.com

UK CEMAS UK powered by Xfurth Ltd

uk.sales@cemaselettra.com







russia.sales@cemaselettra.com

Russia CEMAS Russ



Romania CEMAS Romania romania.sales@cemaselettra.com

OFFICIAL DEALERS

USA/Canada 🕅 EXTOL sales@extolinc.com

•





CEMAS ELETTRA S.R.L.

Strada deg**l**i Occhini, 23 10022 Carmagnola (TO) Italy

P +39 011 97 12 096 F +39 011 97 73 922 info@cemaselettra.com www.cemaselettra.com

