



Made in
Italy

SICE 1 WIDE

Sinergo - Cetma composites induction welding equipment, wide working area

Sinergo automatic machine for welding composites parts up to 1 x 1 meter, by electromagnetic induction patented system.

Suitable for:

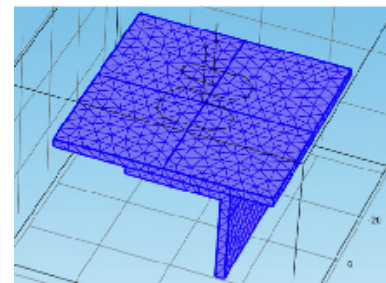
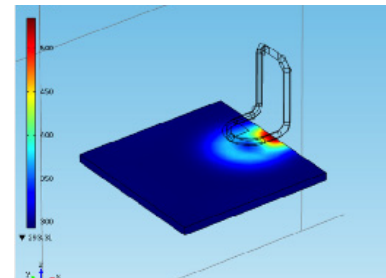
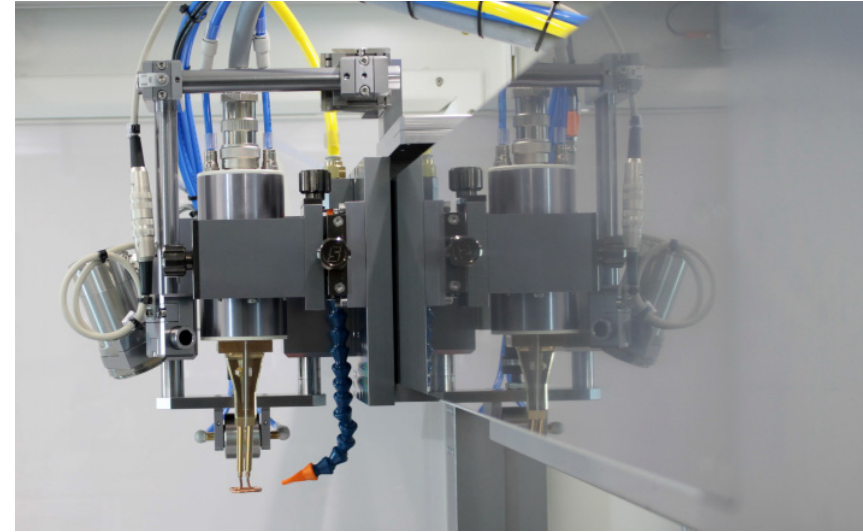
- thermoplastics welding
- thermosetting materials joining
- heat activated glue bonding
- joining of several materials, as carbon fiber composites and aluminium
- Sinergo & Cetma offer: support, knowledge, specialized laboratory,.. competence to evaluate any specific requirement



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allows to get very high mechanical properties of the joint, without drawbacks typical of other traditional techniques.



Main features:

Pieces can be reworked or repaired.

No any special tooling is required to operated by SICE 1 WIDE machine.

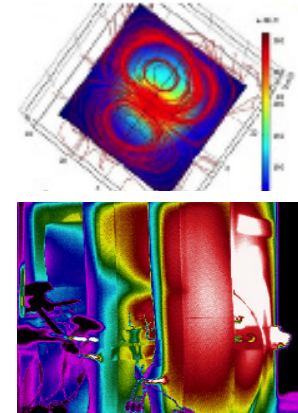
No any special enviroment is required to operate.

Immediate equipment turn on - turn off and very low power comsumption.

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SICE 1 WIDE is a new machine, the result of our search for an innovative process and a new generation of equipment for welding of composites. We designed it on the base of computer electrophysics simulations FEM, laboratory test and measurement of mechanical proprieties of welded parts, noting high values of mechanical and fatigue resistance.



Aeronautics and Space - Defense - Automotive - Sportswear - Safety and body protection



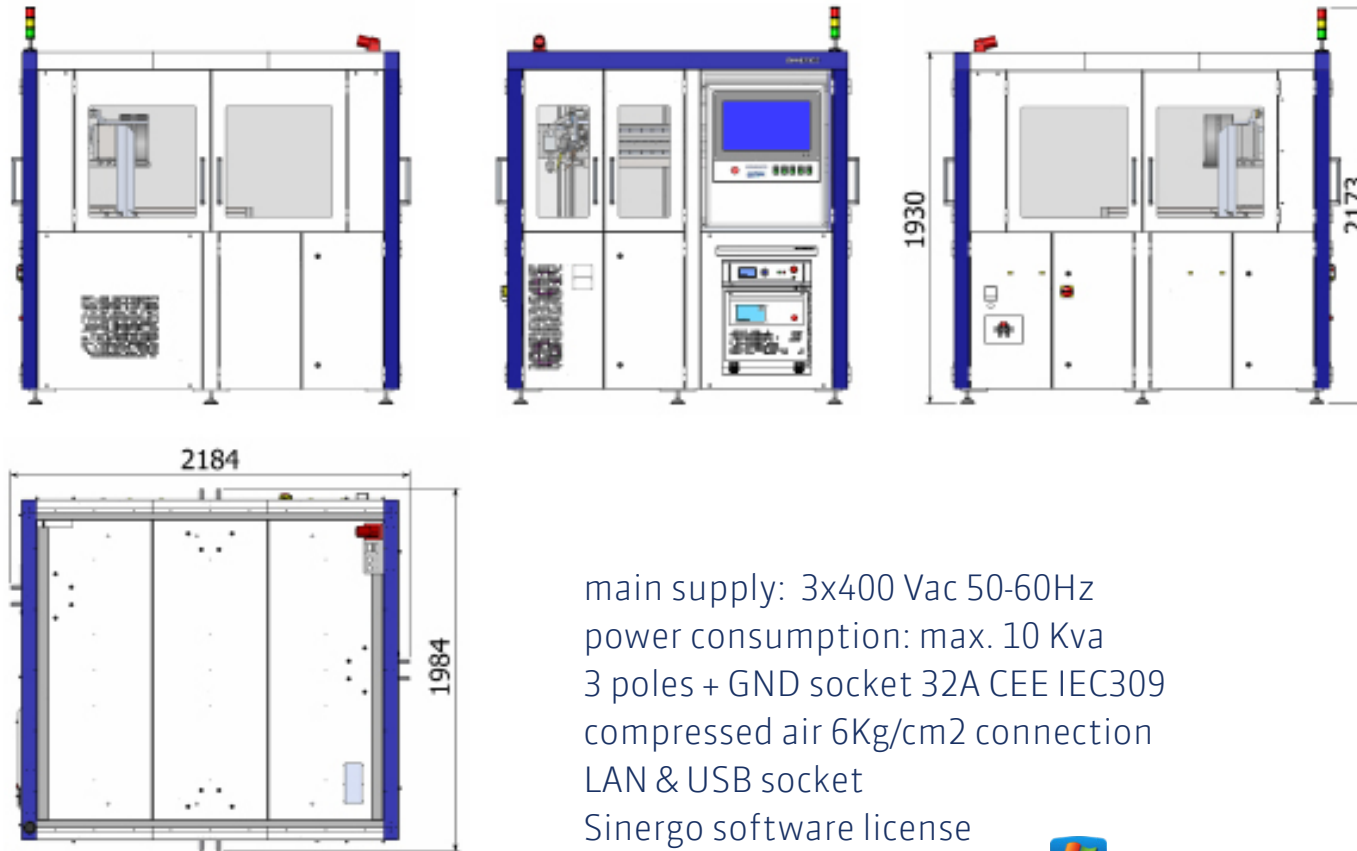
SICE 1 WIDE:
gantry machine
controlled e.m. induction heating and cooling
digital control of applied force
and process temperature by optical pyrometer
1 (2) NC axis movement
X-Y strokes: 1000 mm Z stroke: 250 mm
PLC Motion control
User friendly HMI interface



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main supply: 3x400 Vac 50-60Hz
power consumption: max. 10 Kva
3 poles + GND socket 32A CEE IEC309
compressed air 6Kg/cm² connection
LAN & USB socket
Sinergo software license
panel PC Windows 7 license



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