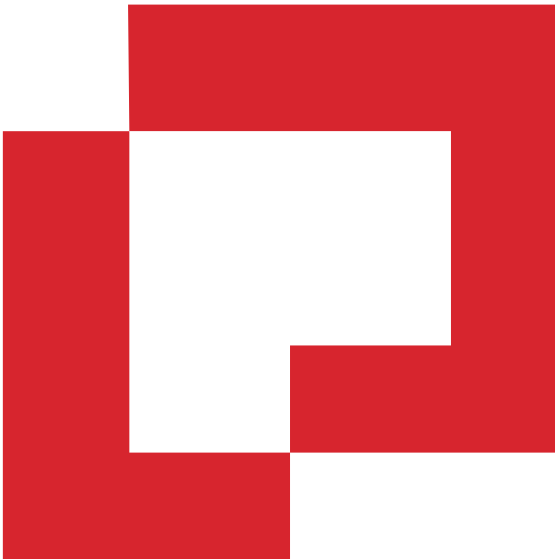




AUTOMOTIVE

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AUTOMOTIVE ASSEMBLY LINE

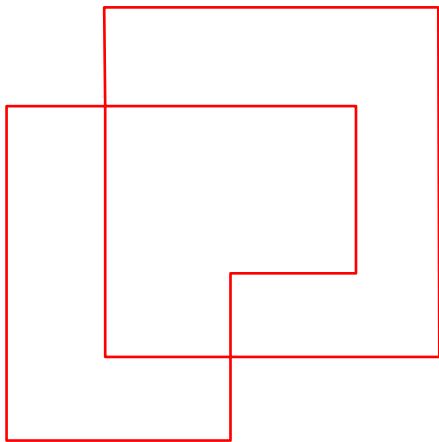


Assembly line can be composed by the following equipment:

- HOLE PUNCHING MACHINE
- S.E.S. COMPACT MACHINE
Short circuit - Electrowelding - Short circuit
- HOT MELT MACHINE
- LID PLACING MACHINE
- HEAT SEALING MACHINE
- POST WELDING MACHINE
- LHPM COMPACT MACHINE
Leakage test – Pole and Battery Height control – Marking

The sequence which the above equipment are been inserted allows to complete the phase of assembly and a series of electric tests guarantee, at the exit of the assembly line, the obtaining of a product of high quality. All the equipment are realized in accordance to CE standards.

Assembly line can be completed with general PC SCADA ASSEMBLY software to supervision all line, that can be integrated with TRACEABILITY software.





Technical features:

The sizes of ASSEMBLY line can be different in order to machine configuration and productivity requested.

Productivity: from 2 up to 6 battery per minute.

Fast and easy change over available on all machines.

High Performace / Durable and robust /
User friendly / Easy maintenace machine

Processable battery Sizes:

Length from 175 to 550 mm

Width from 125 mm to 275 mm

Height from 160 to 300 mm





HOLE PUNCHING MACHINE:

Head movement by servomotor

Punching head with high quality cutting

Plastic waste suction

Productivity: Up to 6 battery per minute

Fast and easy change over

High Performance / Durable and robust

/ User friendly / Easy maintenance
machine

Optional:

Barbs burning

Box Depalletizer

Box Buffer

Processable battery Sizes:

Length from 175 to 550 mm

Width from 125 mm to 275 mm

Height from 160 to 300 mm





S.E.S. COMPACT MACHINE

Short circuit - Electrowelding - Short circuit

Head movement by servo

Parallel movement of jaw by Hydraulic cylinder

Straps alignment

Discharging bench for not conform battery

Productivity: Up to 8 battery per minute

Fast and easy change over

High Performace / Durable and robust
/ User friendly / Easy maintenace

machine

Optional:

Different welding device brand

Automatic TIP brushing

Sizes of battery to work:

Length from 175 to 550 mm

Width from 125 mm to 275 mm

Height from 160 to 300 mm





HOT MELT MACHINE

Head movement by servo

Pot capacity 20 Kg

Productivity: Up to 6 battery per minute

Fast and easy change over

High Performance / Durable and robust

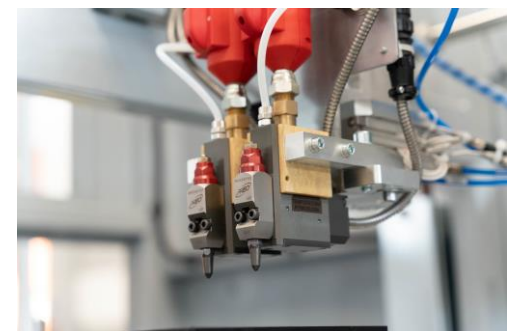
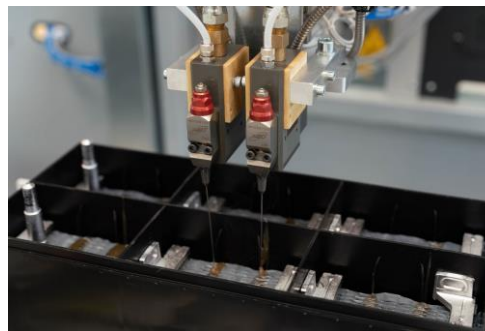
/ User friendly / Easy maintenance
machine

Processable battery Sizes:

Length from 175 to 550 mm

Width from 125 mm to 275 mm

Height from 160 to 300 mm





LID PLACING MACHINE

Pick and place by SCARA Robot

Lid storage up to 60 lids

Productivity: Up to 6 battery per minute

Fast and easy change over

High Performance / Durable and robust /

User friendly / Easy maintenance machine

Optional:

Additional lid storage

Pole Alignment

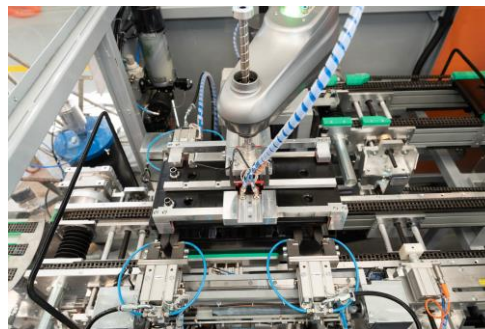
Pole greasing

Processable battery Sizes:

Length from 175 to 550 mm

Width from 125 mm to 275 mm

Height from 160 to 300 mm





HEAT SEALING MACHINE

Forward backward movement of heating plate by servomotor

Automatic adjustment of Fw-Bw of Lid holder

Automatic adjustment of guide width

Productivity: Up to 8 battery per minute

Fast and easy change over

High Performance / Durable and robust / User friendly / Easy maintenance machine

Optional:

Automatic changeover

Straightness device for AGM battery

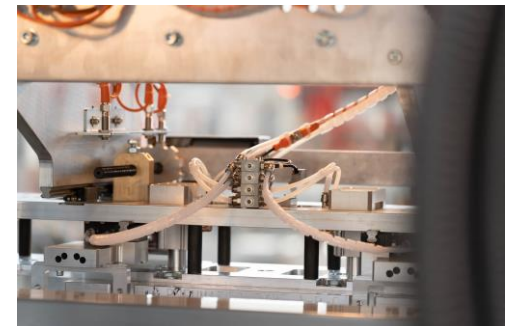
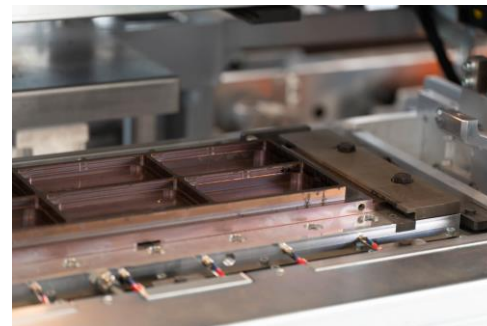
Up and Down movement of lid holder and lifter by servomotor

Processable battery Sizes:

Length from 175 to 550 mm

Width from 125 mm to 275 mm

Height from 160 to 300 mm





POST WELDING MACHINE

With hot pin or Rotary burner technology

Up and Down movement by servomotor

Automatic adjustment of Fw/Bw movement of welding group

Automatic adjustment of left/right position of welding group

Automatic adjustment of guide width

Productivity: Up to 6 battery per minute

Fast and easy change over

High Performance / Durable and robust

/ User friendly / Easy maintenance

machine

Optional:

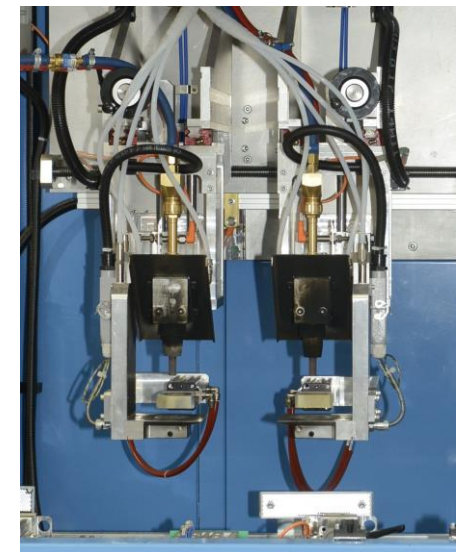
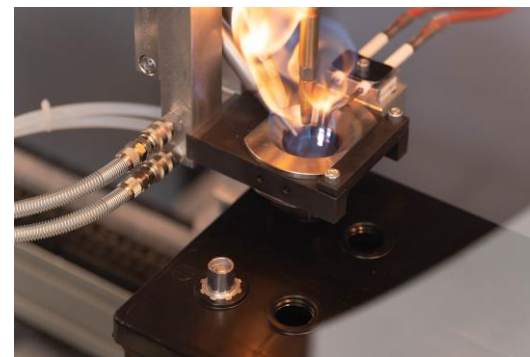
Lead wire unwinder for truck battery

Processable battery Sizes:

Length from 175 to 550 mm

Width from 125 mm to 275 mm

Height from 160 to 300 mm





LHPM COMPACT MACHINE

Leakage test – Pole and Battery Height control – Marking

Productivity: Up to 6 battery per minute

Pressure test up to 400mb - Accuracy 1mb

Pole and Battery height accuracy 0,1mm

Discharging bench for not conform battery

High Performance / Durable and robust

/ User friendly / Easy maintenance machine

Optional:

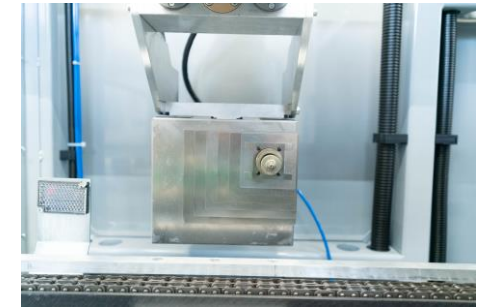
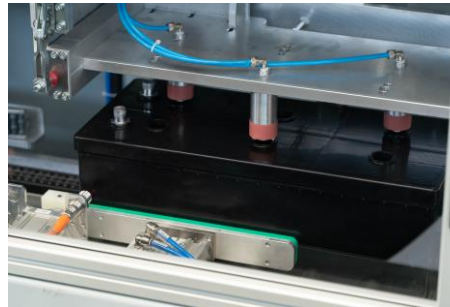
Additional Pressure transducer for test of single cell

Processable battery Sizes:

Length from 175 to 550 mm

Width from 125 mm to 275 mm

Height from 160 to 300 mm





BATTERY PALLETIZER ROBOT

Productivity: Up to 6 battery per minute

Customized layout

Fast and easy change over

High Performance / Durable and robust

/ User friendly / Easy maintenance
machine

Processable battery Sizes:

Length from 175 to 550 mm

Width from 125 mm to 275 mm

Height from 160 to 300 mm





Pneumatica

TOGETHER IN BATTERY MANUFACTURING

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