Leakage control head can be equipped with different testing nozzles.

The leakage testing pressure is adjustable up to 400 mbar.

The hot marking unit can be run at different temperatures, if necessary.

Characteristics
- Performance: up to 5 batteries/min.
- Container Length: 81 - 206 mm
- Container Height: 80 - 200 mm
- Container Width: 58 - 125 mm

MACHINE DIMENSIONS
- Length: 4,700 mm
- Width: 1,500 mm
- Height: 2,200 mm
- Net Weight: 2,200 kg

UTILITIES
- Air Pressure: 6 bar
- Uncompressed Air Volume: 5.4 m³/h
- Electrical Power Consumption: 3 kW
- Technical data may change.

Options
- Additional set of tools (different heating plate and lid handling)
- Automatic tool change and pre-heating station

Heat sealing machine

Characteristics
- Performance: up to 5 batteries/min.
- Container Length: 81 - 206 mm
- Container Height: 80 - 200 mm
- Container Width: 58 - 125 mm

MACHINE DIMENSIONS
- Length: 3,150 mm
- Width: 1,650 mm
- Height: 2,500 mm
- Net Weight: 1,100 kg

UTILITIES
- Air Pressure: 6 bar
- Uncompressed Air Volume: 5.4 m³/h
- Technical data may change.

Options
- Additional set of tools (different heating plate and lid handling)
- Automatic tool change and pre-heating station

Leakage control and marking machine

Characteristics
- Performance: up to 5 batteries/min.
- Container Length: 81 - 206 mm
- Container Height: 80 - 200 mm
- Container Width: 58 - 125 mm

MACHINE DIMENSIONS
- Length: 4,700 mm
- Width: 1,500 mm
- Height: 2,200 mm
- Net Weight: 2,200 kg

UTILITIES
- Air Pressure: 6 bar
- Uncompressed Air Volume: 5.4 m³/h
- Technical data may change.

Options
- Second leakage control head
- Pole height control unit
- Dot or laser marker
- Six pressure-transducers

Setting different temperatures for boxes and lids results in better sealing quality.

The welding temperature is controlled from the operator panel according to the chosen recipe.

Lid handling is performed mechanically.

The tools for lifting the lids can be easily exchanged due to our fast coupling system.

The battery conveyor is equipped with synchronizers, guides, and stoppers.

Leakage testing is done in two cycles (first cells 1-3-5; then cells 2-4-6).

The standard machine includes a hot marking unit. Optionally, dot or laser marking is available.

OPTIONS
- Second leakage control head
- Pole height control unit
- Dot or laser marker
- Six pressure-transducers

The leakage tester is controlled from the operator panel according to the chosen recipe.

For the positioning of the testing nozzles, individual templates are used.

The leakage control head can be equipped with different testing nozzles.

The leakage testing pressure is adjustable up to 400 mbar.

The hot marking unit can be run at different temperatures, if necessary.
Our line is a set of highly flexible machines for the assembly of up to 5 batteries per minute. Different levels of automation can be chosen. The line is optimized for easy and quick adjustment for different battery types. Storage of data for analysis is also possible. All machines fulfill state of the art safety standards.

**ASSEMBLY LINE MINI**

An automatic assembly line is essential for consistent and stable battery quality. Based on our long term experience, modern engineering, and proficiency we offer a market oriented and efficient solution.

**THE ASSEMBLY PROCESS**

1. Battery Testing and Inter Cell Welding
2. Placing the Lid
3. Welding the Lid to the Box
4. Post Burning
5. Leakage Testing and Marking

**THE ASSEMBLY MACHINE**

- **Short Circuit Tester and Inter Cell Welding Machine**
  - 

**OPTIONS**

- Software Support (SCADA)
- Pole height control

For your individual requirements we offer customized solutions.

**SHORT CIRCUIT TESTER AND INTERCELL WELDING**

Short Circuit Control Head:
- Type: 3,000 V, 100 mA type DHVT 3,000 VAC
- Max. 3 heads possible

Inter Cell Welding Device:
- SAFCO type IP3/S 1650 (one per each head)

**CHARACTERISTICS**

- Performance: up to 5 batteries/min.
- Container Length: 81 - 206 mm
- Container Height: 80 - 200 mm
- Container Width: 58 - 125 mm

**MACHINE DIMENSIONS**

- Length: 4,500 mm
- Width: 1,600 mm
- Height: 2,500 mm
- Net Weight: 1,800 kg

**UTILITIES**

- Air Pressure: 6 bar
- Uncompressed Air Volume: 5.4 m³/h
- Electrical Power Consumption: 16 kVA

**OPTIONS**

- Second short circuit control head after intercell welding
- Tools for different battery types