BMR 10
ENVELOPING & STACKING MACHINE
For Automotive SLI and VRLA Battery Manufacturing
Our experience gathered from building more than 300 enveloping and stacking machines constitutes the basis of our BMR10.

Combining the new high-speed plate feeder with the redesigned main track and stacking wheel delivers an output rate of up to 160 PE envelopes and/or 140 AGM wraps per minute.

The compact and modular design allows different upgrades like additional leaf type separator magazines or the processing of AGM separators.

Maintenance requirements are considerably lower despite the increase of speed and efficiency.

Servo cutting system, electronic double plate detection, self-cleaning filter unit and many other features now are part of the standard machine.

Our worldwide leading plate in-feed system provides perfect positioning of the plates.

The optimized dust exhaust system with only one connector requires less exhaust volume and lowers the emission at the working areas.

Icon-based, self-explaining and multi lingual operator panel with recipe management, password administration and on screen user manual.

The Enveloping & Stacking Machine BMR10 is the best solution for flooded SLI batteries, VRLA batteries as well as enhanced flooded batteries.

History of BM10 series

<table>
<thead>
<tr>
<th>Year</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>1997</td>
<td>BM10</td>
</tr>
<tr>
<td>2006</td>
<td>BMV10</td>
</tr>
<tr>
<td>2012</td>
<td>BMR10</td>
</tr>
</tbody>
</table>

LUIG BRUSH

New lug brushing system concept ensures best results – even for very soft and thin plates.

The brush housing is connected to the dust exhaust system in order to minimize lead emissions.

Setting is easy and maintenance low.

PLATE FEEDER

The new high-speed plate feeding device offers maximum performance at optimized maintenance intervals.

REDESIGNED STACKING WHEEL

Innovations created by the inventor of the stacking wheel will once again set a new benchmark.
Performance comparison
BMR10 – BMV10
Output in batteries per minute

VARIATIONS
- Plate surface brushing
- 2 feeder machine

OPTIONS
- Double separator uncoiling for simultaneous handling of PE and glass mat, AGM or double layer wrapping
- Automatic separator splice for PE separator
- Leaf type separator magazin – retrofittable
- Separator pre-folding shuttle
- Lug brushing
- Different options for element transport
- Automatic element check station in different variations
- Automatic reject station
- Envelope shape control system via camera

Technical data can change according to the selected variation.

WE CARE ABOUT

---

GENERAL
Number of Plate Magazines 3
Enveloped Plates/min (PE) 80 – 160
Wrapped Plates/min (AGM) 80 – 140
With Leaf Type Separator up to 120
Maximum Element Thickness 125 mm
Stacking Programs up to 9

PLATE DIMENSIONS
Plate Height (without lug) 92 – 153 mm
Plate Width 100 – 153 mm
Plate Thickness 0.8 – 3.0 mm
Maximum Lug Height 25 mm

SEPARATOR
Separator Width 105 – 170 mm
Separator Thickness 0.8 – 3.5 mm
Separator Material PE, AGM and/or leaf type
Envelope Height 95 – 165 mm

MACHINE DIMENSIONS
Machine Length (without conveyor) ~5,600 mm
Machine Height ~2,900 mm
Machine Width ~3,000 mm
Net Weight ~7,000 kg

UTILITIES
Air Pressure 6 bar
Uncompressed Air Volume 55 m³/h
Electrical Power Consumption 25 kVA
Exhaust Volume 12,000 m³/h

BMR 10 MICRO
BMV 10 MINI
BMR 10
BMV 10
BMV 10/220
BMV 10/310