LIQUID PRIMARY PACKING

TECHNOLOGY INSIDE

LIQUID PRIMARY PACKING
LIQUID PRIMARY PACKING SYSTEMS

The “Non Stop Innovation” motto perfectly expresses Fameccanica Mission and the LPP Business Unit is the latest example of Fameccanica marked attitude towards innovation.

LPP offers a wide product range of state of the art solutions expressly designed for personal and home care products. LPP brings a tangible competitive advantage thanks to the superior quality of the finished product, combined with outstanding production efficiency and short payback.

Hereafter we will list all of LPP solutions and their main advantages.

Enjoy your trip!

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LIQUID PRIMARY PACKING SYSTEMS

<table>
<thead>
<tr>
<th>MACHINE MODEL</th>
<th>WORKING SPEED</th>
</tr>
</thead>
<tbody>
<tr>
<td>LPP I</td>
<td>Up to 150 bpm</td>
</tr>
<tr>
<td>LPP 1</td>
<td>Up to 200 bpm</td>
</tr>
<tr>
<td>LPP 2</td>
<td>Up to 300 bpm</td>
</tr>
<tr>
<td>LPP 3</td>
<td>Up to 400 bpm</td>
</tr>
</tbody>
</table>

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LPP (Liquid Primary Packing) is a Business unit of Fameccanica dedicated to the manufacturing of machinery for rigid bottles filling, focusing on Home Care and Personal Care products.

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WELCOME TO FAMECCANICA

Founded in 1975, Fameccanica is world leader manufacturer of machinery for disposable hygiene absorbent products with more than 1000 manufacturing lines delivered since 1975. With over 900 employees worldwide, Fameccanica has a global presence with 4 plants located in Italy, China, Brasil and U.S.A.

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PERSONAL CARE

HOME CARE

*The above bottle types are given just for reference.
TECHNOLOGY INSIDE SOLUTIONS

ADDED VALUE

QUALITY:
- Positive and gentle bottle handling
- Outstanding filling accuracy
- Performing and reliable components

TOTAL COST OF OWNERSHIP:
- Fully integrated monoblock
- Single Supplier for primary packaging
- Quick Installation
- 10-35 min format change

TECHNOLOGY:
- Robotic Bottle Unscrambler
- Modular system with Compact Footprint
- Industry 4.0 machine
- Full servo monoblock
- Direct coupling (no buffers)
**HIGHLIGHTS**

**01 FAMECCANICA LPP FILLING TECHNOLOGY:**

Fameccanica LPP filling technology guarantees strategic advantages in terms of:

- **Product saving**
  - Volume / Weight guaranteed with less overfilling
  - Filling accuracy: $s < 0.15\%$ mass flowmeters
  - $s < 0.2\%$ magnetic flowmeters

- **Improved packaging quality**
  - Antistringing and antidripping nozzle
  - Constant filling level

- **Reduced filling time**
  - Increased Flowrate up to 0.4 l/s
  - Filling pressure up to 3 bar
  - Antifoam nozzle

- **Clean design**
  - GMP compliant
  - Open and Closed loop CIP/SIP
  - Compatible with organic products

- **Reduced maintenance cost and downtime**
  - Guaranteed for over 10 mn cycles maintenance free
  - Absence of components subject to wear

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**FILLING ACCURACY:**

![Filling Accuracy Graph](image)

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**02 COMPACT FOOTPRINT**

Total length for a 200 bpm complete primary packing for detergents: **17 m**

- Unscrambler
- Filler
- Capper
- Labeller

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**03 WIDE PRODUCT RANGE**

The machine is capable to handle the widest product range:

- **STANDARD, CORROSIVE OR EXPLOSIVE LIQUIDS**

- **CAPS AND PUMPS, WHICH CAN BE MANAGED SIMULTANEOUSLY**

- **TRIGGERS WITH SEVERAL KIND OF DIP TUBE**

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![Dip Tube Example Image](image)
Can be coupled with FDRU robotic unscrambler (1 or 2 robots)

Peristaltic pumps, Dosing Cylinders or Flowmeters

Automatic and Semi automatic cappers for small productions

Thermosealer Solutions for film or aluminum seal

Trigger capper linear solution to handle Trigger Spray

Continuous motion
ROBOTIC UNSCRAMBLER

- Noise level < 75 dB(A)
- Zero-time size change
- Gentle bottle handling
- Defective bottle reject
- Direct Coupling (no buffer need)
- 2-year payback
- 60% less compressed air than a traditional Rotary Unscrambler

PUCK INSERTER

- Positive Bottle Control
- Full Servo technology
- Open and closed puck handling

PUCK HANDLING CAPABILITY

OPEN PUCK

CLOSED PUCK

ROBOTIC UNSCRAMBLER

ROBOTIC UNSCRAMBLER

PUCK INSERTER
Automatic CIP/SIP
Filling accuracy $\sigma \leq 0.2\%$
Product feeding system
Wide viscosity range
Flowmeter technology
Maintenance-free filling valve
Full servo
Without-size change pump sorter

Cap orienting capability

Automatic format change for cap conveyor

Both pumps and caps handling

Full servo system

Electronic cam

Dip Tube Centering Device

Full-servo Capping Heads
LABELLER

- Vision control
- Electronic Cam for the smoothest label application
- Empty Bottle pressurization system
- Automatic height adjustment
- Self-adhesive and cold glue labels

NOTE

- Quick Size Change device: All plates pop-up pushing a button
- Pressurization Nozzles used for “Light-weight” Bottles

NOTE

- Empty Bottle pressurization system
- Automatic height adjustment
- Self-adhesive and cold glue labels

NOTE

- Labeler technology inside > 20
- Technology inside > 21
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