

Interactive Catalogue

Trick #1



Industry Solutions: PACKAGING

Packaging plays an important role in industrial production. Vacuum applications in this field range from grasping small bags to handling large-sized cardboard boxes. Their extremely various size, shapes, weights, and materials also as a result of the many functions they need to fulfil: hold, transport and store products, but also inform, promote, and facilitate use, etc.

Regardless of the type of packaging, the handling constraints are always the same:

- Safety of goods and operators.
- Handling throughput.
- Versatility.
- Energy savings.

COVAL All Along the Line

► SUCTION CUPS
Suction cups meet a wide variety of specifications thanks to the large choice of shapes, diameters, and materials. COVAL offers a complete line of fastening fittings that are suitable for suction cups and compatible with all types of applications:

- Flat and anti-flat suction cups
- Clamping suction cups
- Non-perforated suction cups

→ See chapters 2 and 3.

► VACUUM PUMPS
COVAL vacuum pumps all have compactness, embedded intelligence, and low energy consumption in common.

- Micro-electronic
- Modular vacuum pumps
- Smart vacuum pumps

→ See chapters 5 to 9.

► VACUUM GRIPPERS
Vacuum grippers are used to grip several products (flow packs, film cans, etc.) or packages (palletization at once).

- MVG: fully configurable vacuum gripper
- CIVE: vacuum gripper with many possible combinations

→ See chapter 13.



Trick #2

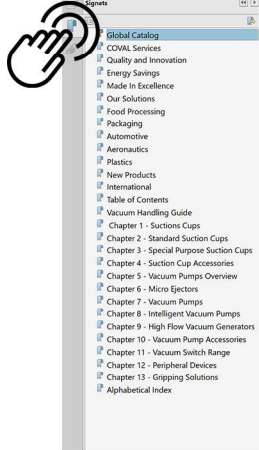


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Standard Suction Cups
Chapter 2

VSAG	Suction Cups with 1.5 Bellows Ø 10 to 100 mm	P. 212
VSAS	Suction Cups with 1.5 Bellows Ø 10 to 100 mm	P. 213
VSASJ	Suction Cups with 1.5 Bellows Ø 15 to 28 mm	P. 214
VS	Suction Cups with 2.5 Bellows Ø 5 to 60 mm	P. 215
VSG	Suction Cups with 2.5 Bellows Ø 5 and 7 mm	P. 216
VSD	Long Stroke Suction Cups	P. 218
C	High-performance Suction Cups	P. 221
VSA-VS BM	Beam Rings	P. 229
VSBM	Beam Rings	P. 229

Trick #3

LEMAR Compact, High Flow Vacuum Pumps
Energy Saving & Adaptability

Intelligent Vacuum Pumps
Chapter 8

LEMAR Intelligent Micro Vacuum Pump with ASIC (Air Saving Control) technology

LEMAR Compact High Flow Vacuum Pump with ASIC

LEMAR Intelligent Micro Vacuum Pump with ASIC (Air Saving Control) technology

LEMAR Compact High Flow Vacuum Pump with ASIC

LEMAR Intelligent Micro Vacuum Pump with ASIC (Air Saving Control) technology

LEMAR Compact High Flow Vacuum Pump with ASIC

LEMAR+ Compact, High Flow Vacuum Pumps
General Information

LEMAR+ Series, compact, high flow vacuum pumps, integrate ASIC (Air Saving Control) technology that allows up to 90% of energy savings. They are specifically designed for drying, air-lift or vent-out applications.

For gripping porous products or those with a rough surface, it is recommended to use the LEMAR+ Series (see page 59).

Advantages

- Easy implementation: Plug & Play, multiple choices, every type of application.
- Maximum automatic energy savings.
- Compactness: LEMAR+ vacuum pumps are the most compact on the market.
- Short response times: Possible installation very close to vacuum ports.
- Automatic slow-off: Reduced PLC I/O requirement thanks to the automatic slow-off function (slow-off time configurable from 1 to 10s).
- Used resistant: Non-viscous through-hole sensor.
- Safety: Product gripping is maintained even during power failure.

Complementary

- 25% of moisture vacuum.
- AC or DC, depending on safety.
- ASIC: advanced electronics.
- High visibility display.
- Integrated vacuum sensor.
- Vacuum non-return valve.
- Combined ASIC "wetness regulator".
- External slow-off signal or automatic slow-off function.
- Powerful slow-off as option.
- Sensor with 0 or 1/2 VDC connectors.
- Slow-on flow rate (0/10/min).

Integration

LEMAR+ compact modules integrate all functions on a single PCB: advanced ASIC, ASIC, efficient compressor, ASIC logic and are designed for every application:

- 0.3 bar pressure regulator
- "Vacuum" solenoid valve
- 0.3 bar optimized venturi
- Optional diaphragm
- Electronic vacuum sensor
- Integrated electronics
- "Slow-off" solenoid valve
- Slow-off flow rate regulator
- Powerful slow-off valve
- Vacuum non-return valve

90% energy savings (on average, see p. 8/16).

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