



**COVAL press release  
LEM+ and LEMAX+  
Intelligent vacuum pumps**

**Commercial launch  
2015 NEW**

**Montélier (26), Thursday, 11th December 2014**

**Main activity sectors:**

Manufacturer of pneumatic components for vacuum handling.

Application sectors: Packaging - Food processing - Robotics

**LEM+ and LEMAX+ intelligent vacuum pumps:  
all intelligent power**

*COVAL is expanding its range of intelligent vacuum pumps with the launch, since November 2014, of new products: **LEM+ and LEMAX+**. Increased power is combined with COVAL vacuum pump qualities: **performance, compactness and energy savings.***

**“Boosted” versions of the LEM and LEMAX.**

As their name implies, the **LEM+** and the **LEMAX+** are more powerful versions of the LEM and LEMAX, vacuum pumps previously commercialized by COVAL. For COVAL, the aim is to meet manufacturer and end user demands for stronger power.

Mission accomplished since the **LEM+** reaches a flow rate of 125 to 385 NI/min (compared with 29 to 92 for the LEM) and the **LEMAX+** reaches a flow rate of 125 to 200 NI/min (compared with 29 to 70 for the LEMAX)

**Optimized size/power ratio**

The **LEM+** and **LEMAX+** are the perfect mixture of more (bigger) power and smaller size. For the integrator and user these two qualities are a guarantee of easy installation and performance. Compared to similar products in terms of power, the **LEM+** and **LEMAX+** are by far the most compact vacuum pumps on the market.



### Powerful and frugal

COVAL has developed two complementary ranges of compact high flow rate vacuum pumps:

- The **LEM+**, optimized in terms of energy savings for handling porous pieces with a rough surface
- The **LEMAL+**, optimized in terms of energy savings for handling semi-airtight and airtight pieces

Each model is equipped with its own energy-saving technology.



For the **LEM+**, **ASR (Air Saving Regulator) technology** regulates working pressure at 3.5 bar, whatever the pressure supplied by the compressed air network. Any unnecessary consumption is thus avoided, ensuring **energy savings of 40% on average**.



For the **LEMAL+**, once vacuum is created **ASC (Air Saving Control)** technology enables the piece to be held without any energy consumption. The result is **energy savings of 90% on average**.



**Calculate your energy savings online, thanks to our Energy Saving App. application.**

<http://www.coval-international.com/company/our-technologies/energy-saving-app/>

### Preserved intelligence and ergonomics

The design of the **LEM+** and **LEMAL+** is based on constant concern for integrator and user comfort; in a word: optimized ergonomics.

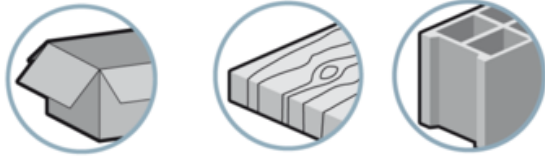
Here is a human-machine dialogue façade, bringing together all use accesses: follow-up information, settings, controls on a high visibility screen. In addition, each vacuum pump is factory preset according to standard criteria to facilitate implementation.

Finally, the automatic timed blow-off after each hold saves using one automaton output.

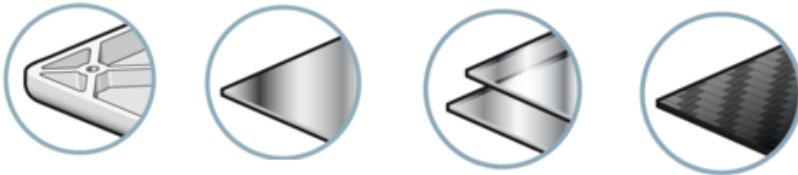


## Fields of use

**LEM+:** gripping porous materials requiring a high suction flow rate.



**LEMAY+:** gripping airtight materials for the automotive, aeronautics and plastics sectors.



## What makes the difference

- **Easy implementation:** Plug & Play, multiple choices, all types of applications.
- Maximum automatic **energy savings:**
  - LEM+: 40% savings for porous pieces
  - LEMAY+: 90% savings for airtight pieces
- **Compactness:** LEM+/LEMAY+ vacuum pumps are the most compact ones on the market.
- **Short response time:** installation as near as possible to the suction cups
- **Automatic blow-off:** economizing a control signal, thanks to configurable blow-off time (from 0 to 10s)
- **Dust resistant:** non-clogging, through-type silencer
- **Safety:** hold maintained even during an unexpected power cut



**COVAL: vacuum where it's needed, when it's needed.**

COVAL is the **French leader** in vacuum handling. Based in the Rhône Alpes Region, COVAL SAS **designs, manufactures and commercializes high performance components and vacuum systems** worldwide, for industrial applications in all sectors of activity.

**A certified ISO 9001 V2008 company**, COVAL innovates in vacuum handling on a worldwide basis with optimized components, integrating smart and reliable functions. Adaptable to all industrial contexts, its solutions have safe improved productivity as its highest priority.

COVAL products are present in the main industrial sectors (**packaging, automotive, plastics, aeronautics, food processing...**), where vacuum handling is crucial for efficiency and productivity.

COVAL commercializes its products and services worldwide with the help of its five subsidiaries (Germany, China, Spain, Italy and the USA) and its authorized distribution network.



## Facts and figures

### The Company

- French company created in 1986
- Workforce : 50 employees
- 2013 Turnover: 6,7 million €
- 30 distributors in France
- 5 subsidiaries: Germany, China, Spain, Italy, USA
- Production sites and headquarters: Montélier (26), France

### Its products

Ejectors, Suction Cups, Vacuum switches, Vacuum grippers, Accessories, Vacuum lifters and Tube lifters.

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