



COVAL

vacuum managers

VAC'easy

vacuum lifting devices



VAC'easy: horizontal handling of

Use

The VAC'easy vacuum lifting devices range constitutes COVAL's standard response to needs in terms of the horizontal handling of smooth, impermeable loads. They are easy to use, accessible to all, and stand out due to their reliability and their all-round robustness.

VAC'easy vacuum lifting devices are dedicated to horizontal handling of sheet metal from 100kg up to 800kg carried out by a single operator:

- Palletizing and depalletizing.
- Supply of machines.
- Unloading conveyors.



Advantages

- Fast and easy to implement.
- Humanisation of the most restrictive physical labour.
- Productivity gains.
- Loads can be handled by a single operator.
- No deterioration of the handled loads.
- Better working conditions.
- Straightforward to use.
- Rapid return on investment.
- CE equipment.

Safety and ergonomics

Using VAC'easy vacuum lifting devices makes it possible to improve working conditions while at the same time reducing operator fatigue and accidents for all operations involving the horizontal handling of metal sheet up to 800 kg.

- Vacuum tank.
- Check valve.
- Needle vacuum gauge with the utilisation zone (red/green) indicating the vacuum level in the suction pads.
- Visual indicator for showing a power cut.
- 1 green "gripping" button.
- 2 red "release" buttons that force the user to use both hands.



Coval, a company with ISO 9001: V2008 certification, has been achieving global-level innovations in terms of vacuum handling for over 25 years, using optimised systems and components that integrate smart, reliable functionalities that can be adapted to your industrial context and which can improve your productivity under completely safe conditions.

Bolstered by this extensive experience and its know-how on the handling market, Coval is now offering you its full range of VAC'easy vacuum lifting devices dedicated to horizontally handling metal sheet.



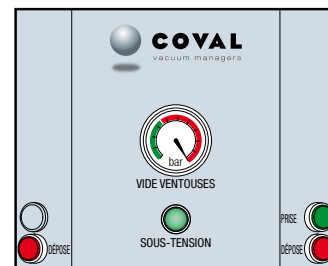
sheet metal weighing up to 800 kg

MAIN BEAM

3 lengths: 1,700, 2,500 and 3,000 mm.
The main beam is used as a vacuum tank for holding the load in place should there be a power cut.

CONTROL PANEL

A control panel that features the Gripping/Release buttons as well as the safety displays (needle vacuum gauge with a red zone/green zone and the power cut indicator)..



LIFTING ARCH

AUXILIARY BEAMS

length: 1,000 mm.

HANDLING HANDLEBAR

Robust and ergonomic

SPRING SYSTEMS

To guarantee that all the suction pads come into contact with the load, VAC'easy units are equipped with spring systems as standard features:



TS4 50 VAC'easy



TS5 60 VAC'easy

SUCTION PADS

The suction pads are made of nitrile, which guarantees no risk of deterioration of the loads handled as well as excellent performance in relation to hydrocarbons (oils).



Ø 200 mm
VPG 200 NBR



Ø 240 mm
SPL 240 NBRTS



Ø 340 mm
SPL 340 NBRTS

Options/accessories

- Power supply: 220V Single or Three-phase.
- Universal control box support.
- Integration of the hoist controls into the VAC'easy control panel.
- Special length for the handlebar.
- ¼ turn valve for selecting the suction pads.
- Spiral cable or hose for the VAC'easy's power supply.
- Industrial connectors.



The hoist controls are integrated into the VAC'easy control panel.



To select your VAC'easy

VAC'easy	5	6	E
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MAX. WEIGHT OF THE SHEET METAL TO BE HANDLED		NUMBER OF SUCTION PADS (to be determined using the table below)				ENERGY USED																								
300 kg	3	<table border="1"> <thead> <tr> <th rowspan="2">min. thickness</th> <th colspan="3">Max. dimensions of the sheet metal to be handled (L x W) in mm</th> </tr> <tr> <th>1000x2000</th> <th>3000x1500</th> <th>4000x2000</th> </tr> </thead> <tbody> <tr> <td>0.5 mm</td> <td>6</td> <td>8</td> <td>-</td> </tr> <tr> <td>1 mm</td> <td>4</td> <td>6</td> <td>8</td> </tr> <tr> <td>1.5 mm</td> <td>4</td> <td>6</td> <td>8</td> </tr> <tr> <td>2 mm</td> <td>4</td> <td>4</td> <td>6</td> </tr> </tbody> </table>				min. thickness	Max. dimensions of the sheet metal to be handled (L x W) in mm			1000x2000	3000x1500	4000x2000	0.5 mm	6	8	-	1 mm	4	6	8	1.5 mm	4	6	8	2 mm	4	4	6	P	pneumatic
min. thickness	Max. dimensions of the sheet metal to be handled (L x W) in mm																													
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0.5 mm	6	8	-																											
1 mm	4	6	8																											
1.5 mm	4	6	8																											
2 mm	4	4	6																											
500 kg	5	4	6	8	E	electric																								
800 kg	8	8	8	8																										



REFERENCE EXAMPLE: VAC'easy 5 6 E (VAC'easy vacuum lifting device intended for handling sheet metal with a maximum weight of 500 kg, a min. thickness of 1 mm, max. dimensions 3,000 x 1,500 mm, electric power).

General characteristics

4-suction pads VAC'easy

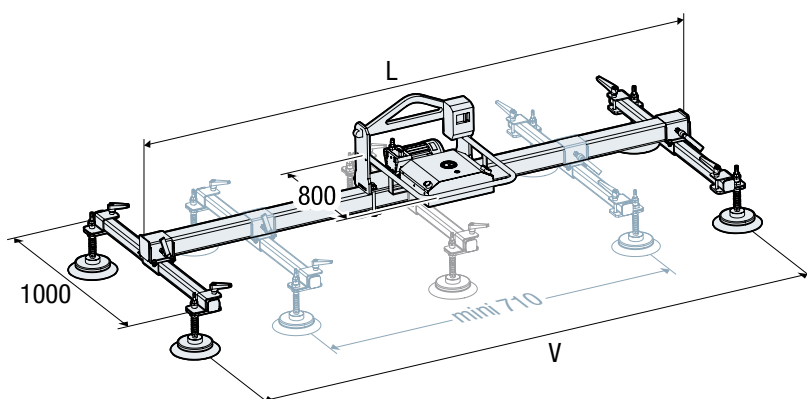
Max. load (kg)	Height (H)	Length of the main beam (L)	Number of auxiliary beams	Space between suc. pads (V)	Min. sheet format (l x L)	Type of suction pads	Spring system	Weight	Electric version part No.	Pneumatic version part No.
300	650 mm	1700 mm	2	min. 710 mm max. 1700 mm	500 x 1000 mm	VPG 200 NBR	TS 4 50 VAC'easy	80 Kg	VAC'easy 34E	VAC'easy 34P
500					600 x 1000 mm	SPL 240 NBRTS	TS 4 50 VAC'easy	90 Kg	VAC'easy 54E	VAC'easy 54P
800					750 x 1100 mm	SPL 340 NBRTS	TS 5 60 VAC'easy	110 Kg	VAC'easy 84E	VAC'easy 84P

6-suction pads VAC'easy

Max. load (kg)	Height (H)	Length of the main beam (L)	Number of auxiliary beams	Space between suc. pads (V)	Min. sheet format (l x L)	Type of suction pads	Spring system	Weight	Electric version part No.	Pneumatic version part No.
300	650 mm	2500 mm	3	min. 710 mm max. 2500 mm	500 x 1000 mm	VPG 200 NBR	TS 4 50 VAC'easy	100 Kg	VAC'easy 36E	VAC'easy 36P
500					600 x 1000 mm	SPL 240 NBRTS	TS 4 50 VAC'easy	110 Kg	VAC'easy 56E	VAC'easy 56P
800					750 x 1200 mm	SPL 340 NBRTS	TS 5 60 VAC'easy	140 Kg	VAC'easy 86E	VAC'easy 86P

8-suction pads VAC'easy

Max. load (kg)	Height (H)	Length of the main beam (L)	Number of auxiliary beams	Space between suc. pads (V)	Min. sheet format (l x L)	Type of suction pads	Spring system	Weight	Electric version part No.	Pneumatic version part No.
300	650 mm	3000 mm	4	min. 710 mm max. 3000 mm	500 x 1350 mm	VPG 200 NBR	TS 4 50 VAC'easy	150 Kg	VAC'easy 38E	VAC'easy 38P
500					600 x 1350 mm	VPG 200 NBR	TS 4 50 VAC'easy	155 Kg	VAC'easy 58E	VAC'easy 58P
800					750 x 1500 mm	SPL 240 NBRTS	TS 5 50 VAC'easy	165 Kg	VAC'easy 88E	VAC'easy 88P



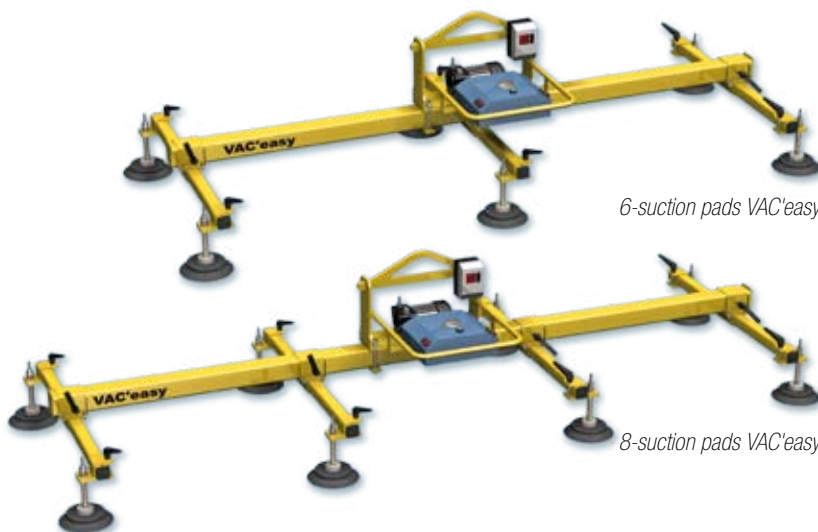
Range

NUMBER OF SUCTION PADS

VAC'easy vacuum lifting devices are available in 4, 6 or 8 suction pads versions in order to adapt to the dimensions and the thickness of the sheet metal to be handled, and to ensure optimal performance without any risk of deformation or deterioration of the loads.



4-suction pads VAC'easy



6-suction pads VAC'easy

8-suction pads VAC'easy

LIFTING CAPACITY

The VAC'easy vacuum lifting devices range comes in 3 capacities, to be selected depending on the maximum loads that have to be handled:

VAC'easy Part number	Max. load (kg)							
	100	200	300	400	500	600	700	800
VAC'easy 3XX								
VAC'easy 5XX								
VAC'easy 8XX								

ENERGY

VAC'easy vacuum lifting devices are available in electric or pneumatic versions to enable optimal integration into the handling station.

■ Pneumatic version:

- Pneumatic vacuum pump, flow rate of 6 m³/h.
- Supply pressure: 5 bar.
- Consumed air: 3.2 l/s at 5 bar.



■ Electric version:

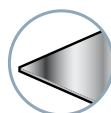
- Dry vane pump, flow rate of 6 m³/h.
- Power supply 380V three-phase + ground.
- Consumption 1A – 250 W.



Solutions for individual lines of business

The VAC'easy vacuum lifting devices, which is a reliable handling tool, provides a very good opportunity for a tradesman or a small or medium-sized industrial firm, as it increases productivity and provides a rapid return on investment.

The standardised design, efficiency and ease of use of VAC'easy vacuum lifting devices enable a precise response to your load handling needs.



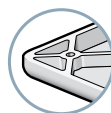
MÉTAL

Gripping flat sheets of steel, stainless steel, aluminium etc. Feeding sheet metal to machine tools (laser, plasma device, guillotine, bending press, nibbler, etc.).



GLASS

Handling windows before and after framing.



PLASTIC

Handling plastic panels.



COVAL
vacuum managers

► **COVAL – SYSTEMS DEPARTMENT**

COVAL SYSTEMS, which specialises in vacuum handling, has designed and manufactured a wide range of vacuum lifting devices, vacuum and tube lifters for over 25 years, making it possible to respond to the various handling applications whilst complying with the safety standards in force.

Our main advantages are the advice we provide, as well as the scope of the range available in our catalogue (and which can be adapted to meet all your needs), and our installation and commissioning service.

vacuum
systems



A TECHNOLOGICAL PARTNER ON A GLOBAL SCALE

COVAL, *vacuum managers* also has a Components Department which designs, manufactures and markets high-performance vacuum automation systems and components for industrial applications worldwide in relation to all business sectors. COVAL implements innovations globally in the field of handling using vacuum technology: its optimised components integrate smart, reliable functionalities that can be adapted to your industrial context and which are able to improve your productivity under completely safe conditions.

Bolstered by its spirit of innovation and its technological advances, the COVAL team's members are now recognised experts when it comes to developing personalised solutions that are reliable, economical and very productive.

COVAL markets its products and services throughout Europe and in North and Latin America via its subsidiaries and its network of authorised distributors. It is always attentive to its customers, and supports the implementation of its solutions with a sustained, attentive relationship.

vacuum
components



Distributed by:



certified quality
management system

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