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ALPHA-LEVATOR



Application made for registered design

The ideal vacuum lifter – battery- or mains operated

- ❑ Ideal for tilers, landscape gardeners, glaziers or natural stone business
- ❑ High energy by lithium-ion batteries
- ❑ For smooth and rough surfaces
- ❑ Suited for almost all air-tight materials like tiles, natural stone-, concrete plates, plastics, glass, metal ...

Alpha-Levator – The Perfect Lifting Technology



All smooth/rough and air-tight plates like tiles, natural stone- or concrete plates, plastics, metal plates or glass can be lifted easily: immediately after the Levator is positioned, it attaches itself securely to the plate and the load can be easily lifted and handled. The Levator releases the plate, when required: press the button and the valve opens. Wall tiles can also be rotated vertically.

Specification

The Alpha Levator consists of a strong aluminium plate with handle. A vacuum pump operated by battery or mains, creates the vacuum.

The vacuum chamber at the bottom side is sealed by an elastic rubber. The self-adhesive sealing can easily be exchanged.

Basic equipment

Scope of delivery: vacuum lifter with a strong handle, vacuum pump, filter, valve and a robust plastic carrying case. The basic equipment can either be operated by battery or mains.

Battery kit

Lithium-ion batteries have no memory effect and allow permanent operation of approx 3 hours. Both batteries are equipped with integrated protective electronics. Charging time of the charger for 220 V - 50 Hz requires approx 2.5 hours.

Mains kit

The basic equipment is connected with the 220 V - 50 Hz mains by a 5 m cable and the power pack.

Order No.	Model	Carrying Capacity Horizontal	Carrying Capacity Vertical	Dimension of suction pad	Weight
810 050	Alpha-Levator basic equipment *	50 kg **	15 kg **	120 x 260 mm	1,5 kg
810 055	Alpha S-Levator basic equipment *	50 kg **	15 kg **	80 x 350 mm	1,5 kg
810 060	Battery kit consisting of 2 batteries and charger 220 V - 50 Hz				0,4 kg
810 070	Mains kit consisting of power pack and 5 m cable for 220 V - 50 Hz				0,4 kg

* The vacuum lifter must only be used close to the ground and may not be used in conjunction with material handling lifting equipment.

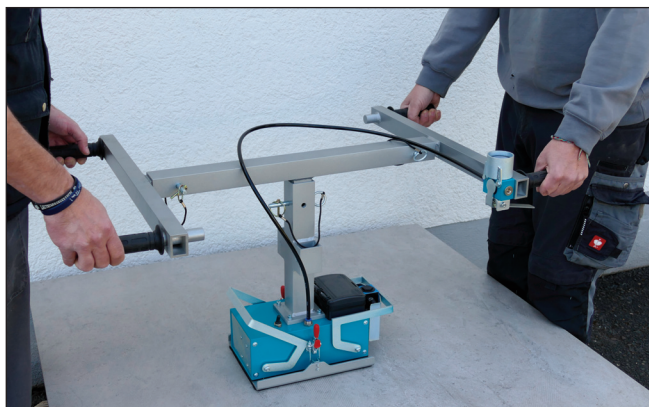
** The maximum carrying capacity on an optimal surface. In the case of rough or porous surfaces, the carrying capacity decreases or does not exist.

BETA-LEVATOR



- **Battery operated vacuum lifter for manual operation**
- **Ideal for gardeners and landscapers, tilers and the natural stone business**
- **For smooth and rough surfaces**
- **For all air-tight surfaces**

Beta-Levator - the vacuum lifter for professionals



All smooth/rough and air-tight plates can be easily lifted, transported and laid by the Beta-Levator. Immediately after the Levator is positioned, it attaches itself using suction.

The Levator releases the plate, when required: open the valve.

Specification

The Beta Levator consists of a strong aluminium box with all component parts packed in. A vacuum pump creates the vacuum. The vacuum chamber is sealed by an elastic rubber. The self-adhesive sealing can easily be exchanged. To prevent the seal from damage, the Levator can be put up on both rotatable resting feet.



Basic equipment

Vacuum lifter fitted with a two men lifter for two men operation. The two men lifter can be adjusted in height from 500 to 700 mm and in width from 850 to 1,250 mm.

As standard the Levator is equipped with a water trap and a pressure gauge.

Battery operation

The powerful lithium-ion battery has no memory effect and allows permanent operation of approx. 3 hours. Charging time of approx. 2 hours is required for the 220 V-50 Hz charger.



Suction plates of specific sizes on request.

Order No.	Model	Carrying Capacity	Width x Length	Weight
816 200-3	Beta Levator with two men lifter, 2 rechargeable batteries and charger 110-230 V	100 kg **	230 x 275 mm	12 kg
816 400-1	Suction plate SP 150	150 kg **	275 x 460 mm	4 kg
* The vacuum lifter must only be used close to the ground and may not be used in conjunction with material handling lifting equipment.				
** The maximum carrying capacity on an optimal surface will work at a low pressure of -0.65 bar minimum. In the case of rough or porous surfaces, the carrying capacity decreases or does not exist.				

BETA H-LEVATOR



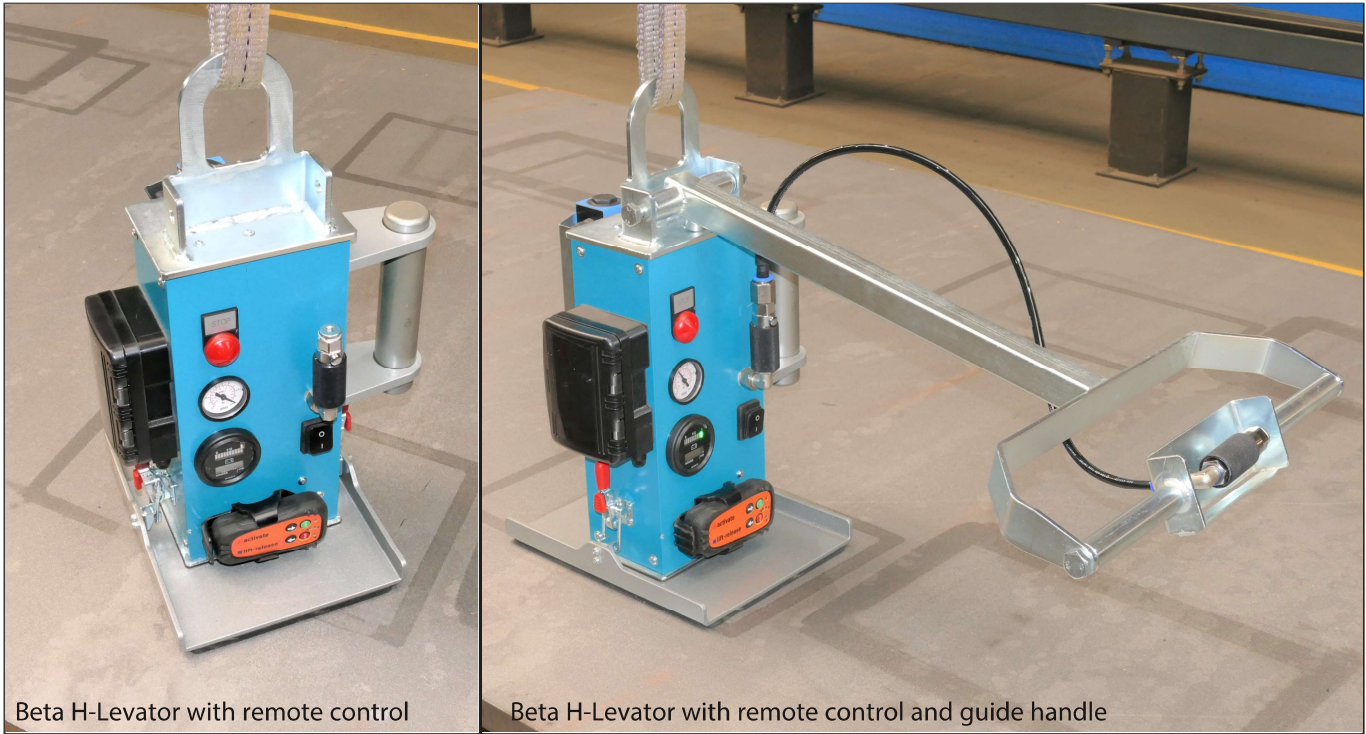
Beta H-Levator with remote control

Property rights granted

- ❑ **The vacuum lifter with a rechargeable battery for machine hoisting operation**
- ❑ **For all non-porous material up to 150 kg**
- ❑ **According to DIN EN 13155 for operation close to the ground**

BETA H-LEVATOR

The light weight vacuum lifter with rechargeable battery for machine hoisting operation



Beta H-Levator with remote control

Beta H-Levator with remote control and guide handle

The Beta H-Levator is designed to handle non-porous plates effortlessly and safely in a horizontal position. Due to the rechargeables batteries there are no trailing cables. Low weight and easy handling enable ergonomic working.

The powerful battery allows a non-stop operation of approx. 3 hours. Charging time when using the charger 220 V / 12 V is approx. 2 hours.

According to DIN EN 13155 the Beta H-Levator is designed for operation with a crane, a wheel loader or an excavator and it is equipped with the following safety devices: pilot lamp, pressure gauge, vacuum storage, dual control, water trap. Lifting is carried out close to the ground. Safety chains must be applied when working on construction sites.

The standard suction plate can be easily released using both toggle clamps. Suction plates of different dimensions are available on request.

The Beta H-Levator can be equipped with a remote control. A rotatable guide handle is on hand for safe guiding.

Order No.	Model	Dimensions	Carrying capacity	Weight
817 001	Beta H-Levator with suction plate 220 x 275 mm, two rechargeable batteries and charger	280 x 280 x 480 mm	100 kg*	9 kg
817 010	Remote control for suction / release of the load	120 x 60 x 50 mm		0,3 kg
817 020	Guide handle	700 x 400 mm		5 kg
816 400-1	Suction plate SP 150	275 x 460 mm	150 kg*	2 kg
817 030	Safety chains according to DIN EN 13155 for operation on construction site			

* Maximum carrying with optimal surface and at a low pressure of at least -0,65 bar. If this low pressure is not achieved, the carrying capacity is reduced or will be zero.

TURBO M-LEVATOR



Turbo M-Levator

- **The vacuum lifter also designed for very porous and rough material**
- **Operation with alternating current 230 V - 50 Hz**
- **For manual operation as well as for machine hoisting operation**

Turbo M-Levator: the perfect vacuum lifter, also designed for very porous materials like concrete plates, ...

Manual hoisting operation

The Turbo M-Levator has specifically been developed for the lifting of even very porous material such as natural or concrete plates. The surface can be smooth or rough.

The suction plate required can be easily and quickly mounted via two toggle clamps. The maximum carrying capacity is 200 kg.

The suction plate is sealed using a flexible rubber. The sealing is self-adhesive and can be easily replaced due to wear and tear.

The Turbo M-Levator immediately adheres to the plate after positioning. The vacuum lifter is equipped with a pressure gauge to control the vacuum.

The Turbo M-Levator first releases the plate when required: move lever. The power is provided through mains supply 230 V – 50 Hz.

The basic equipment can also be equipped with a **docking station**. For various plate sizes the manual suction devices are also available with a two-chamber system.

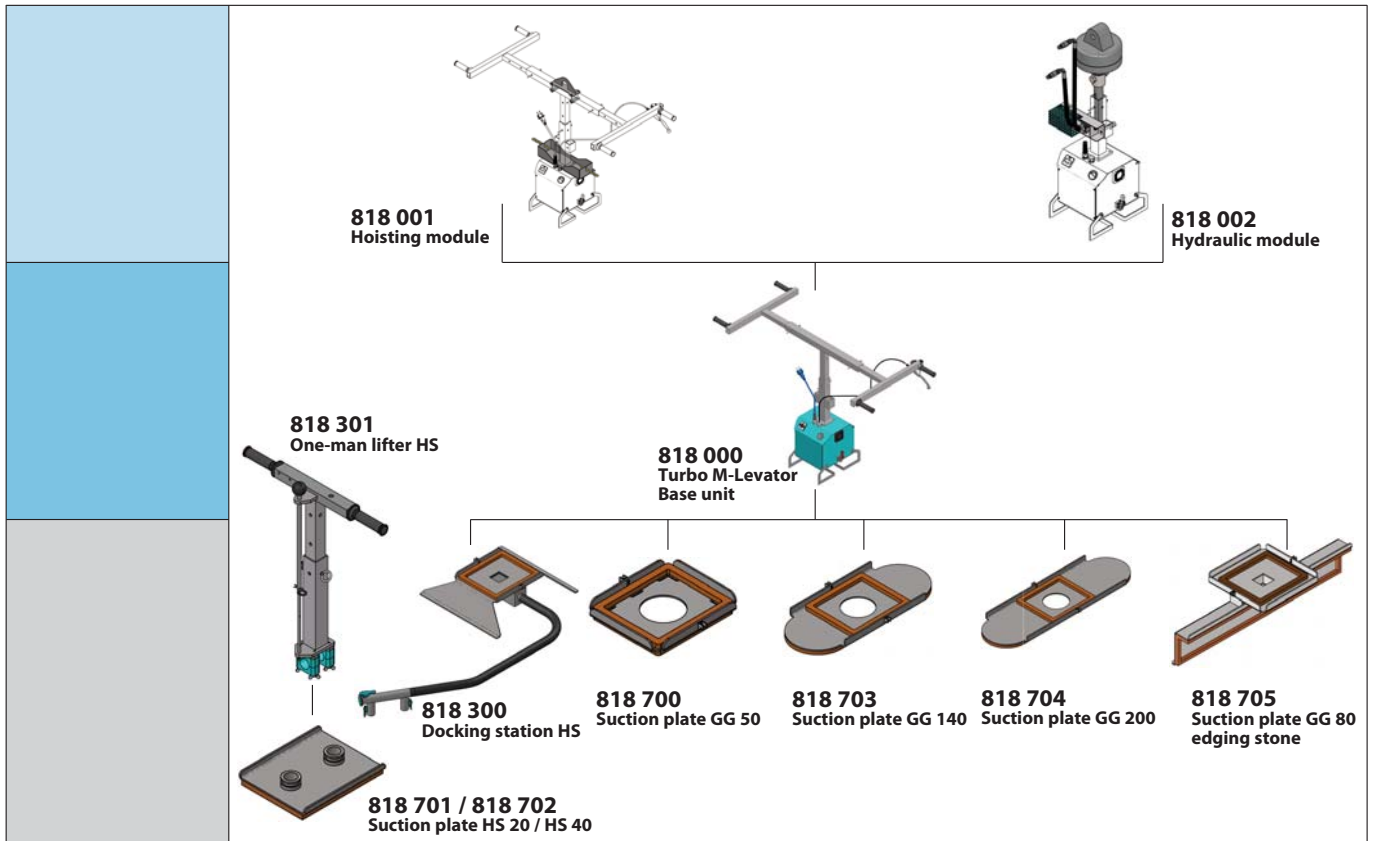
Machine hoisting operation

According to EN 13155 the Turbo M-Levator equipped with the **hoisting module** (suspension eye, safety chain, chain box, protection from unintentional operation) can also be used for machine hoisting operation close to the ground.

Where the Turbo M-Levator is equipped with the **hydraulic module** the plate can be rotated and released using the wheel loader.

Individual suction plates, for example, for edging stones or border stones are available. Special designs for individual shapes are available on request.





Order No.	Model	Dimensions mm	Carrying Capacity kg*	Weight kg
818 000	Turbo M-Levator base unit ** with 5 m electric cable 230 V – 50 Hz	318 x 327		17.0
818 001	Hoisting module (suspension eye, safety chain, chain box, protection from unintentional operation)			7.0
818 002	Hydraulic module for the hydraulic rotation and release of the load, consisting of rotator and hydraulic cylinder for connection to the hydraulic system of, for example, an excavator / wheel loader			4.0
818 300	Docking station HS with 5 m hose and handle	447 x 502		3.0
818 701	Suction plate HS 20	150 x 260	20	2.0
818 702	Suction plate HS 40	220 x 300	40	2.0
818 301	One-man lifter HS			4.4
818 302	Two-chamber system for HS 20, HS 40, add-on kit			
818 700	Suction plate GG 50	300 x 300	50	1.4
818 703	Suction plate GG 140	330 x 600	140	2.2
818 704	Suction plate GG 200	330 x 840	200	3.3
818 705	Suction plate GG 80 - edging stone		80	5.0
818 706	Suction plate GG 150 - high kerb stone		120	6.0

* Maximum carrying capacity on a normal surface will work at a low pressure of –0.2 bar. If this low pressure is not reached, the carrying capacity will decrease.

** Operation close to the ground only. According to EN 13155 the equipment may only be used with the safety chains applied.

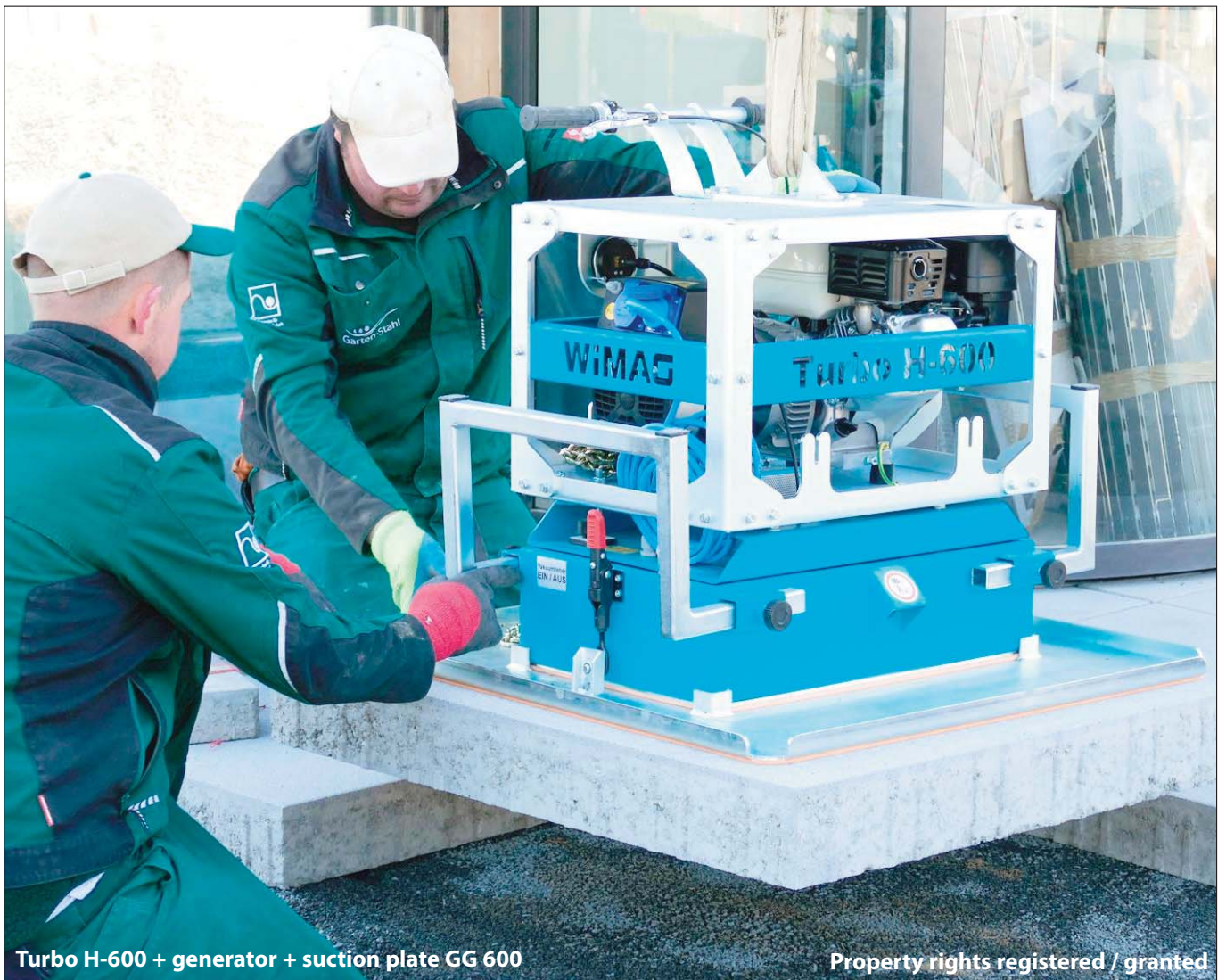


Operation with mini excavator equipped with generator on top of the cabin. Turbo M-Levator with hydraulic module and rotator: hydraulic release and rotation by the operator of the excavator.



Turbo M-Levator with suction plate GG 80 – edging stone

TURBO H-LEVATOR



Turbo H-600 + generator + suction plate GG 600

Property rights registered / granted

- The perfect vacuum lifter, also for very porous material
- Operation by alternating current 230 V – 50 Hz, by generator or power pack

Turbo H-Levator: the perfect vacuum lifter, also for very porous material like washed-out concrete, autoclaved aerated concrete (a.a.c.), travertine ...

The Turbo H-600 Levator is designed for lifting, handling and laying of natural- or concrete plates close to the ground. Both dense and also very porous material can be handled. The surface can be even or rough.

The vacuum lifter can be used with every carrying unit like an excavator, a wheel loader or a crane. The suction plates can be easily and quickly mounted via the two toggle clamps. The maximum carrying capacity is 600 kg.

The suction plate is sealed using a flexible rubber. The sealing is self-adhesive and can be easily replaced due to wear and tear.

The Turbo H-600 Levator immediately adheres to the plate after positioning. The vacuum lifter is equipped with a pressure gauge to control the vacuum.

After positioning the transported material can be released by actuating the safety lever. The power is effected by mains supply 230 V - 50 Hz, by generator or by power pack.

For transportation, both handles can be reinserted and thus protect the sealing against damage.

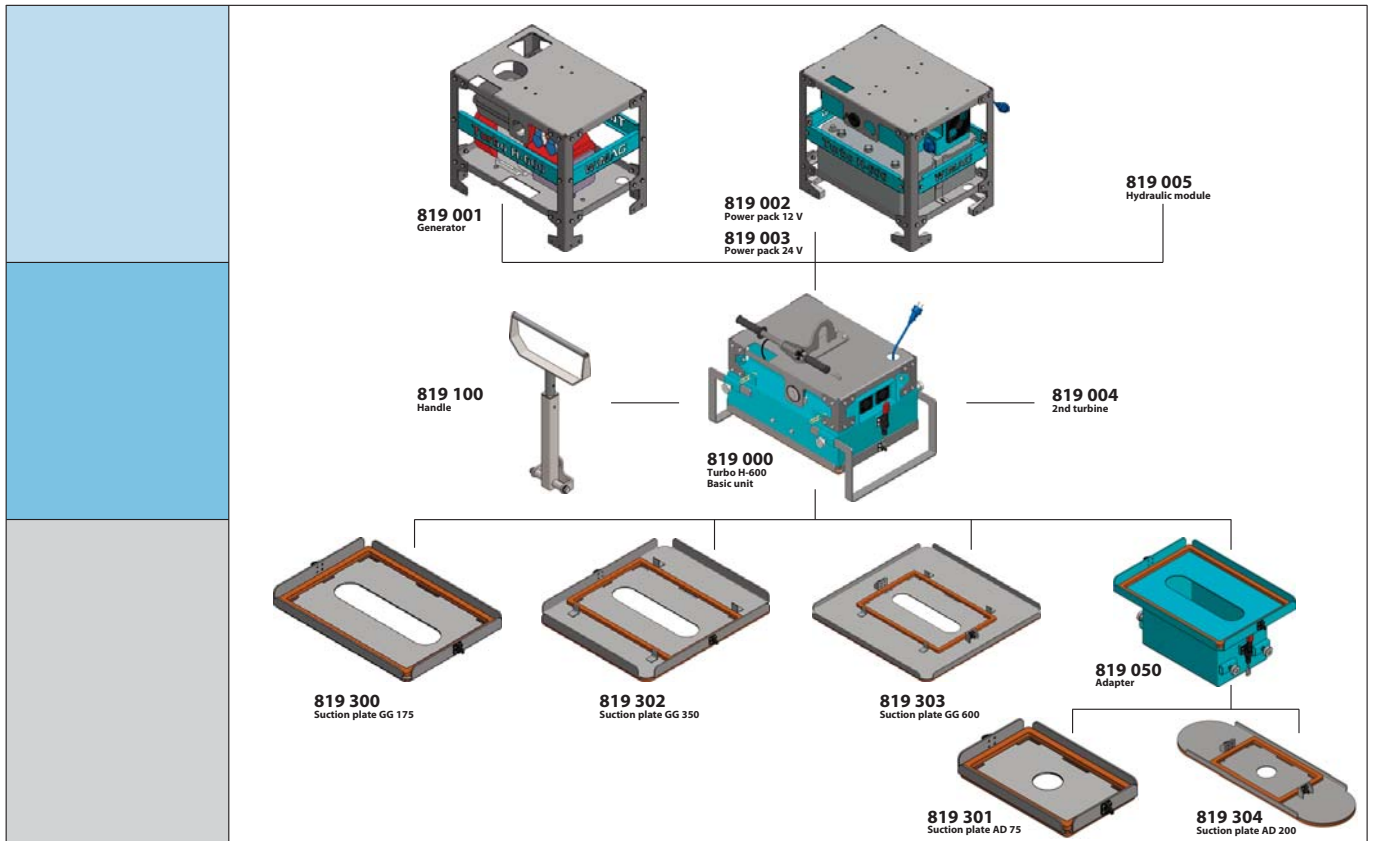
According to EN 13155, the Levator is equipped with two safety chains of 3 m length.

Generator: the Honda petrol engine of 2.3 kW with a strong frame is simply put onto the basic unit.

Hydraulic module: due to the connection to the hydraulic installation of the excavator the load can be handled and released by the operator of the excavator.

Power pack: the basic unit can be powered by the batteries for approx. 2 hours. The operation can also be carried out via a 12 V or 24 V connection of the excavator.





Order No.	Model	Dimensions of suction plate mm	Carrying capacity kg*	Weight kg
819 000	Turbo H-600 basic unit ** with 5 m electric cable 230 V – 50 Hz, suspension eye and 2 safety chains of 3 m length	650 x 520 x 600		74
819 100	Handle adjustable from 600 to 800 mm	700 x 500		7
819 004	2nd turbine for double throughput			9
819 001	Generator HONDA petrol engine, power 2.3 kW			
819 002	Power pack 12 V			142
819 003	Power pack 24 V			
819 005	Hydraulic module for the hydraulic rotation and release of the load; consisting of rotator and hydraulic cylinder for connection to the hydraulic system of, for example, an excavator / wheel loader			
819 300	Suction plate GG 175	444 x 678	175	12
819 302	Suction plate GG 350	678 x 720	350	20
819 303	Suction plate GG 600	840 x 840	600	30
819 050	Adapter	678 x 444 x 303		25
819 301	Suction plate AD 75	295 x 508	75	7
819 304	Suction plate AD 200	298 x 950	200	17

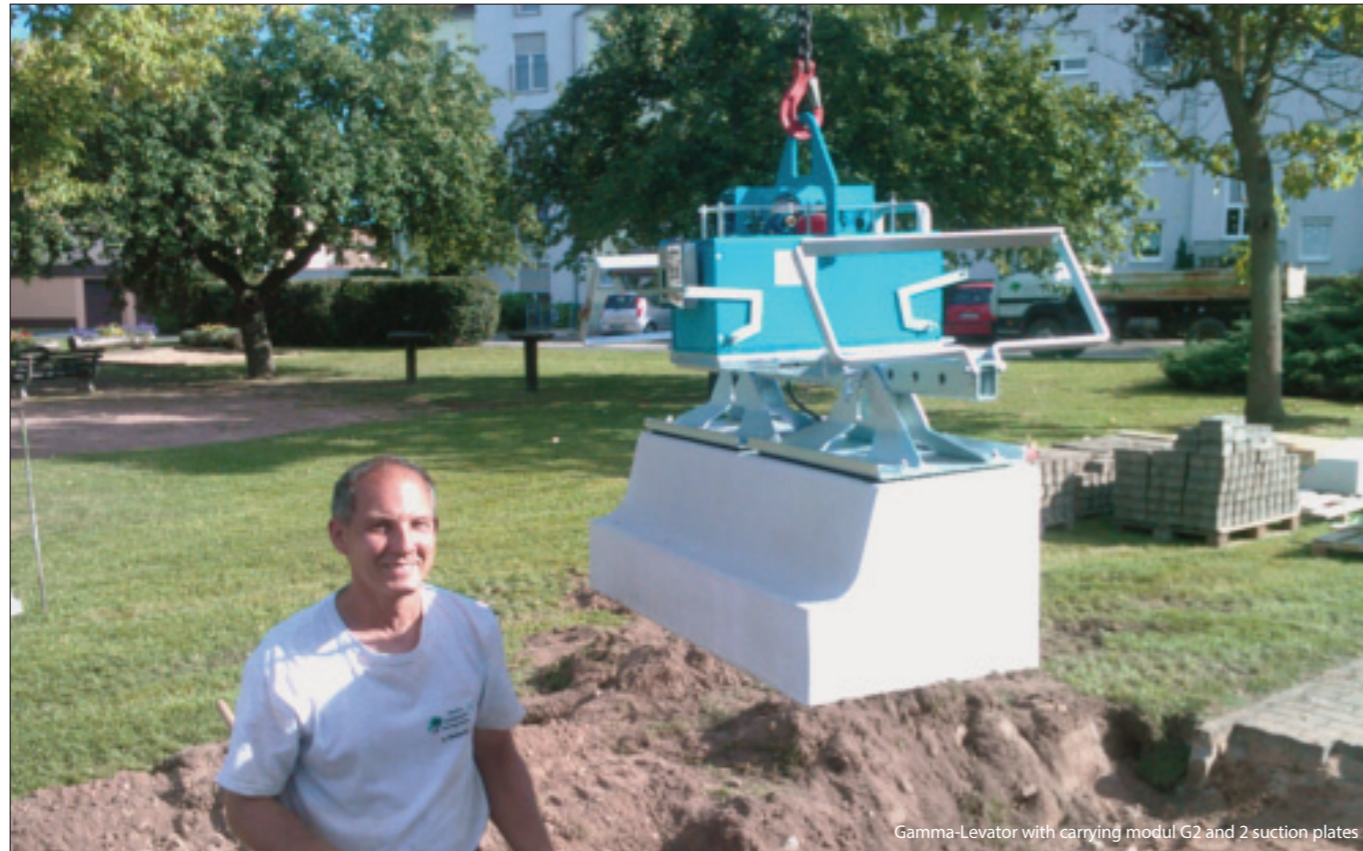
* Maximum carrying capacity on a normal surface will work at a low pressure of –0.2 bar. If this low pressure is not reached, the carrying capacity will decrease.

** Operation close to the ground only. According to EN 13155 the equipment may only be used with the safety chains applied.

Application



GAMMA-LEVATOR



Gamma-Levator with carrying modul G2 and 2 suction plates



Gamma-Levator with special suction plate for pipes and pipe elbows of different diameters.



Gamma-Levator with special suction plate for barrels



Gamma-Levator with suction plate SP 500

Patented/Application made for patent

- Vacuum lifter with a rechargeable battery for machine hoisting operation
- Powerful 12V vacuum pump

Gamma-Levator: The Vacuum Lifter With A Rechargeable Battery For Machine Hoisting Operation



All even and air-tight natural stone-, concrete plates or even metal plates can be handled horizontally easily with the Gamma-Levator. It can be fitted to any material handling lifting equipment.

The Levator system is designed for handling smooth as well as rough plates.

The power is supplied via a rechargeable 12V battery. Therefore, no current or compressed air supply is necessary.

Immediately after positioning the Levator, it will attach itself securely to the plate. The Levator releases the plate, only when required, by opening the sliding switch.

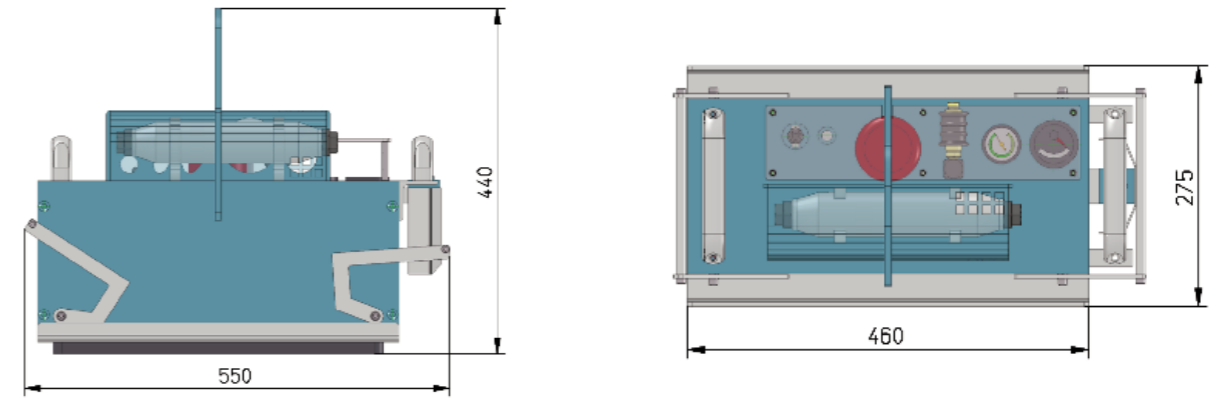
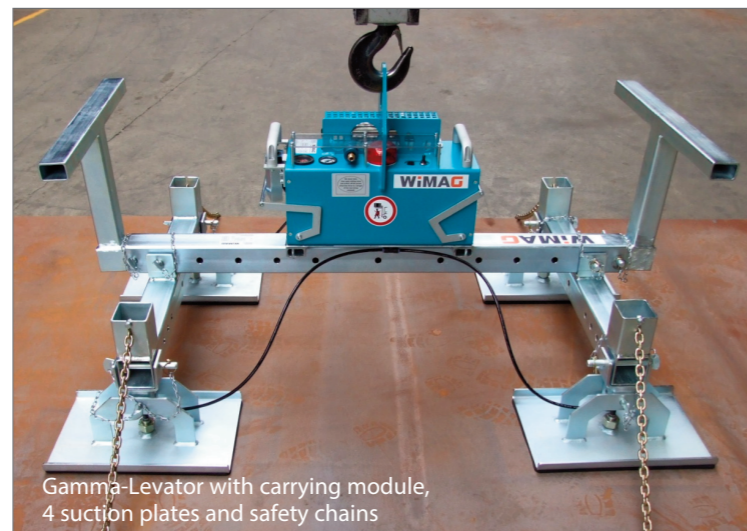
The vacuum is controlled by a visual warning sign, the battery output by a voltmeter.

All component parts are packed into a box.

The Gamma-Levator must only be used close to the ground (max. 1.8m above ground). According to EN 13155 the vacuum lifter must be additionally equipped with a form-locking holding device (e.g. two safety chains) during operation on site.

Scope of delivery

12V battery, sufficient for 8 hours' working operation, vacuum pump, water trap, filter, voltmeter, pressure gauge, vacuum storage, non-return valve, visual warning sign, ready for operation.



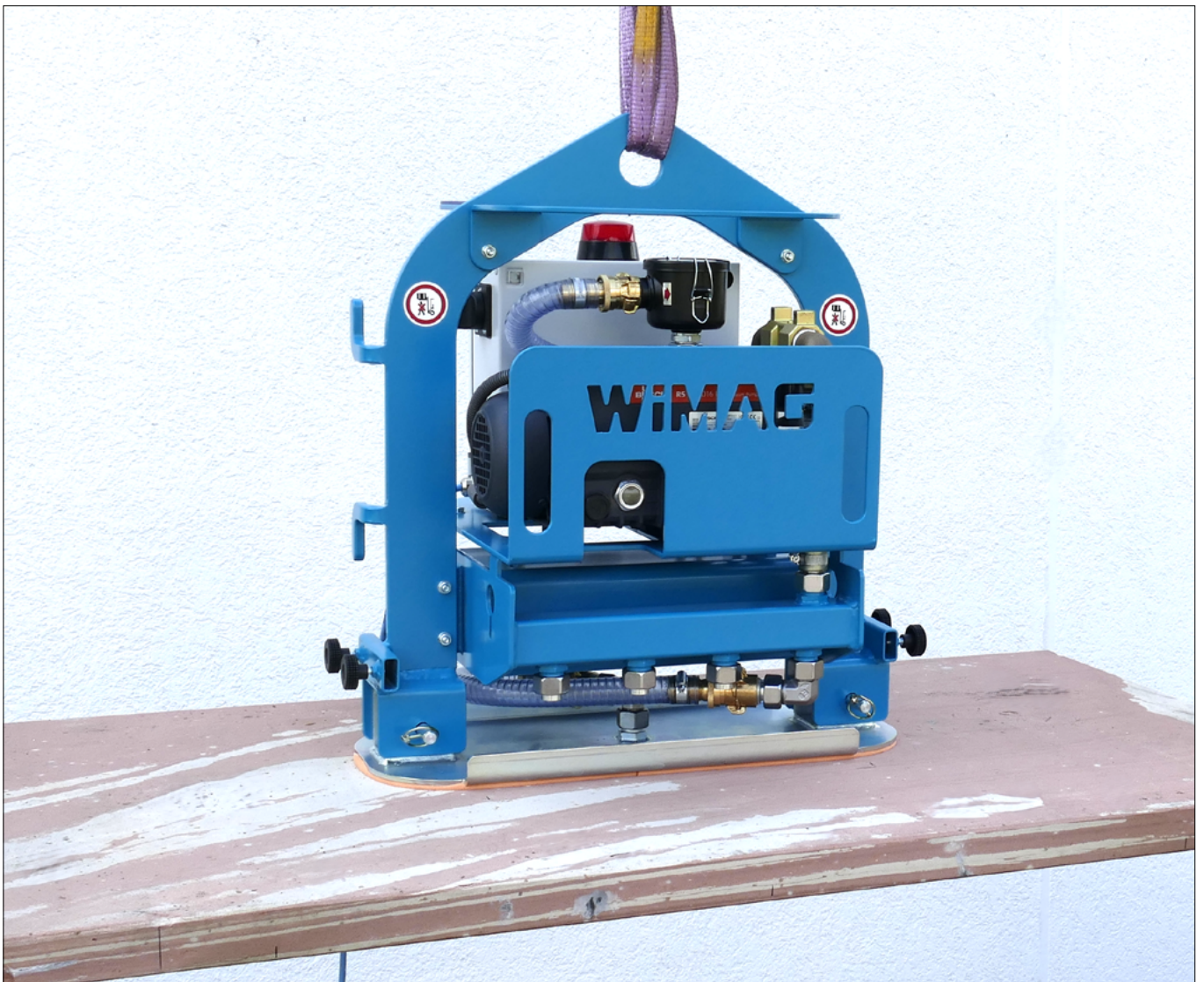
Order No.	Model	Carrying Capacity	Width x Length	Weight
820 100	Gamma-Levator with suction plate SP 200	200 kg *	275 x 460 mm	42 kg
820 260	Charger 220V / 12V			1 kg
820 300	Remote control			1 kg
820 400	Suction plate SP 500	500 kg *	360 x 800 mm	20 kg
820 401	Suction plate SP 500	500 kg *	275 x 950 mm	18 kg
820 402	Suction plate SP 300	300 kg *	275 x 640 mm	13 kg
820 403	Suction plate SP 750 with adapter	750 kg *	650 x 650 mm	20 kg
820 250	Carrying module G2 with 2 suction plates, each 275 x 460mm	400 kg *	540 x 1,150 mm	30 kg
820 254	Carrying module G4 with 4 suction plates rotatable through 90°, each 275 x 218mm	350 kg*	1,050 x 1,750 mm	43 kg
820 256	Carrying module G4 with 4 suction plates rotatable through 90°, each 275 x 460mm	800 kg*	1,100 x 1,950 mm	90 kg
820 405	Safety chains according to EN 13155, length 3.0m			

* The maximum carrying capacity on an optimal surface will work at a low pressure of min. - 0.5 bar. With rough or porous surfaces, the carrying capacity decreases or does not exist.

Special designs available on request.

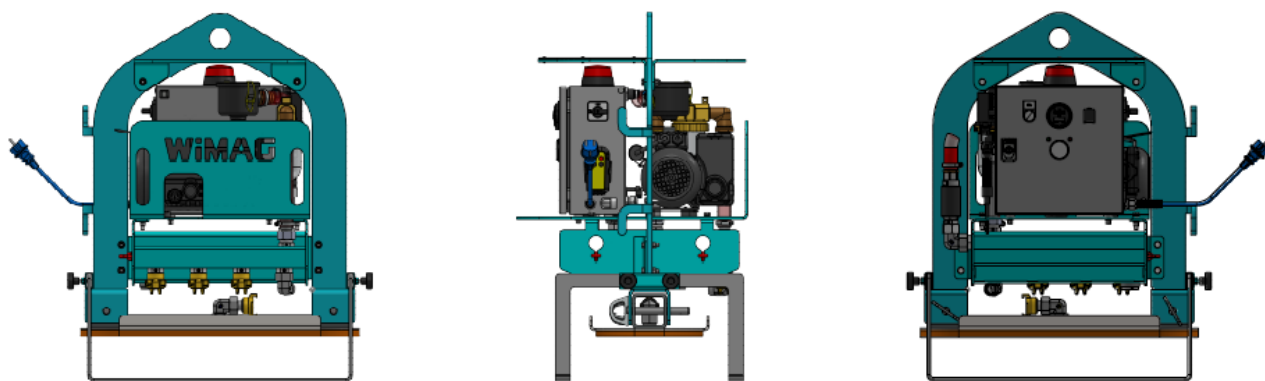
Customised constructions



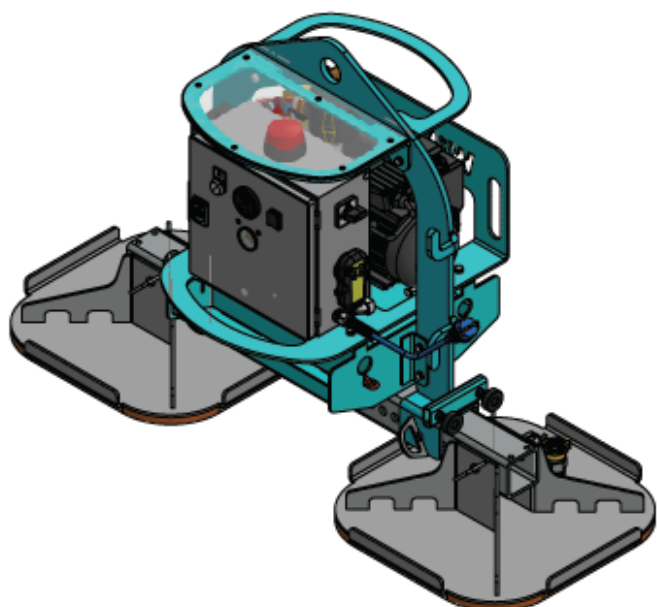


- ❑ **Der starke und kompakte Vakuum-Heber für den Hebezeugbetrieb**
- ❑ **Für glatte und raue Oberflächen**
- ❑ **Für Betrieb mit Elektromotor 230 V - 50 Hz**
- ❑ **Maximale Tragfähigkeit 2.000 kg**

Uni-Levator: der starke Vakuum-Heber für den Hebezeugbetrieb



Fast alle glatten/rauen und ebenen Oberflächen können mit dem Uni-Levator problemlos angesaugt und sicher transportiert werden. Der Uni-Levator gibt die Platte erst wieder frei, wenn Sie es wollen: hierzu wird ein Ventil geöffnet.



Uni-Levator mit 2 Saugplatten SP 500 und Träger

Technik:

Die ölgeschmierte Drehschieber-Vakuum-pumpe ist für den Dauerbetrieb ausgelegt und zeichnet sich durch Ihre enorme Laufruhe und Leistung aus.

Die Vakuumkammer der Saugplatte wird durch einen elastischen Gummi abgedichtet. Die Dichtung ist selbstklebend und kann einfach gewechselt werden. Um die Dichtung zu schonen, kann das Gerät auf den beiden Abstellfüßen abgestellt werden.

Der Uni-Levator ist serienmäßig mit Vakuum-speicher, Wasserabscheider, Manometer, Warneinrichtung und Sicherheitsventil ausgestattet.

Zubehör:

Funkfernsteuerung
Stromerzeuger
Sondersaugplatten auf Anfrage

Bestell-Nr.	Typ	Tragfähigkeit*	Breite x Länge	Gewicht
841 100	Uni-Levator mit Saugplatte SP 400	400 kg	550 x 720 mm	108 kg
841 201	1 Saugplatte SP 500 mit Träger	500 kg	500 x 500 mm	25 kg
841 202	2 Saugplatten SP 500 mit Träger	1.000 kg	500 x 1.390 mm	48 kg
841 203	1 Saugplatte SP 1000 mit Träger	1.000 kg	650 x 650 mm	36 kg
841 204	2 Saugplatten SP 1000 mit Träger	2.000 kg	650 x 1.540 mm	70 kg
841 300	Funkfernsteuerung			
841 310	Benzin Stromerzeuger Inverter schallisoliert 230V-50Hz mit Aufhängung			
841 402	Sicherungsketten gemäß EN 13155, Länge 3,0 m			3 kg

* Maximale Tragfähigkeit bei einem Unterdruck von min. 0,65 bar. Bei sehr rauen oder stark porösen Oberflächen verringert sich die Tragfähigkeit bzw. ist nicht vorhanden.

Der Vakuum-Heber darf nur im bodennahen Bereich eingesetzt werden.

KAPPA-LEVATOR

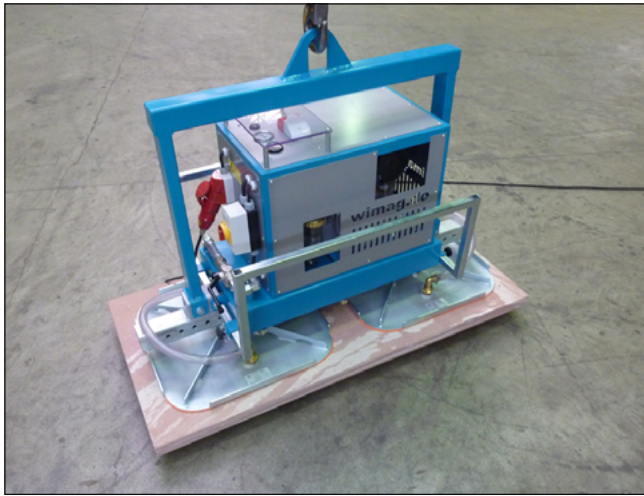


Patented / Application Made for Patent

Kappa Levator with combustion engine,
carrying capacity 3,000 kg

**The strong vacuum lifter for heavy pieces
comes with a petrol engine, an electric motor for 400 V – 50 Hz or via the
hydraulic system on the lifting equipment**

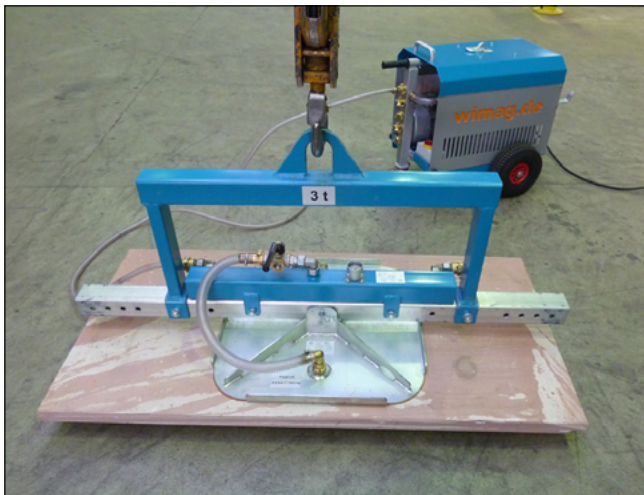
Kappa Levator: the strong vacuum lifter for the handling of natural stones, concrete plates, pipes, metal plates ...



The Kappa Levator is the strongest member of our Levator technology. It is specially designed for the handling of heavy and/or porous material, where a large volume flow and a high low pressure are required. The Levator can be suspended to any kind of carrying equipment such as an excavator or a wheel loader by means of the load hook.

The vacuum is created by a powerful vane-type rotary pump. This robust pump is oil-greased, designed for non-stop operation and produces very little noise.

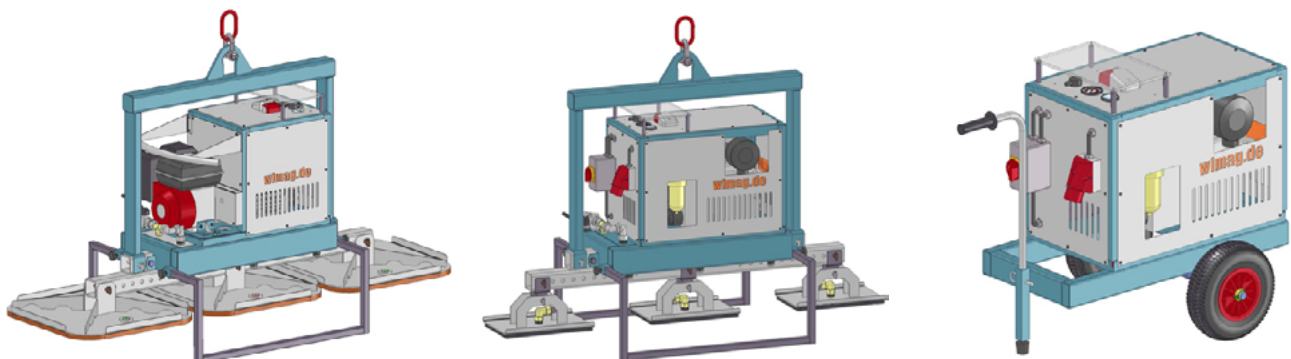
The drive of the vacuum pump is actuated by a petrol engine, an electric motor or the hydraulic system on the lifting equipment (e.g. excavator).



Immediately after positioning the Levator, it attaches itself securely to the surface. To release the Levator, open a valve by hand. The vacuum is controlled by a visual warning sign. Vacuum storage, air and water filter are integrated within the equipment.

For transport both handles can be reinserted and thus protect the suction pads. The self-adhesive sealings are to be changed in a fast and easy manner.

The Kappa Levator can also be delivered as a moveable basic unit to connect separate suction pads. For manual operation also different suction pads can be connected with the basic unit at the same time.



The Kappa Levator must only be used close to the ground (max 1.8 m above ground). According to EN 13155 the vacuum lifter must be additionally equipped with a form-locking holding device (eg. with two safety chains) during operation on site.

	Order No.	Model	Dimensions mm	Carrying Capacity	Weight
Drive	860 100	Kappa-Levator with Honda petrol engine and carrying module, 4 kW	1.500x750x1.200		205 kg
	860 200	Kappa-Levator with electric motor 400 V - 50 Hz and carrying module	1.500x750x1.200		200 kg
	860 300	Kappa-Levator with hydraulic pump to be connected to the hydraulic system on the lifting equipment (with the following require- ments: 16l/min, 150 bar, free runback, conti- nuous oil flow)	1.500x750x1.200		160 kg
	860 500	Kappa-Levator fitted with moveable wheels with electric motor 400 V - 50 Hz	900 x 650 x 750		
Suction pads for operating with lifting equipment	860 408	1 piece suction pad SP 250 2 pieces suction pads SP 250 3 pieces suction pads SP 250	275 x 425 275 x 870 275 x 1.315	250 kg* 500 kg* 750 kg*	10 kg 20 kg 30 kg
	860 409	1 piece suction pad SP 500 2 pieces suction pads SP 500 3 pieces suction pads SP 500	500 x 500 500 x 1.020 500 x 1.540	500 kg* 1.000 kg* 1.500 kg*	16 kg 32 kg 48 kg
	860 411	1 piece suction pad SP 1000 2 pieces suction pads SP 1000 3 pieces suction pads SP 1000	650 x 650 650 x 1.500 650 x 2.200	1.000 kg* 2.000 kg* 3.000 kg*	25 kg 50 kg 75 kg
		Special suction pads with special carrying modules on request			
Form locking device	860 402	Safety chains according to EN 13155 for use on construction sites	Working length 6,0 m		8 kg
Suction pads for manual lifting		see prospectus 840 Uni-Levator			

* The maximum carrying capacity on an optimal surface will work at a low pressure of -0.65 bar. In the case of rough or porous surfaces, the carrying capacity decreases or does not exist.

Applications



Kappa Levator with combustion engine, carrying module with 2 special suction pads for pipes of DN 500, carrying capacity 1,000 kg.



Kappa Levator with electric motor, carrying capacity 800 kg.

Special Designs

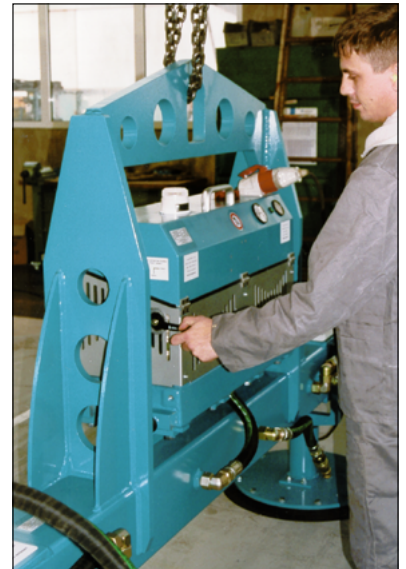
X-shaped and adjustable tie-bar with integrated Kappa Levator with combustion engine.

Equipped with six adjustable suction pads which can be switched off individually.

Designed for a tank and apparatus engineering company to be used for charging machines with large-sized stainless steel plates.

Carrying capacity: with 6 suction pads: 6.000 kg
 with 4 suction pads: 4.000 kg
 with 2 suction pads: 2.000 kg

Plate diameter: maximum: 8.500 mm
 minimum: 3.000 mm



Vacuum tie-bar for steel plates
Safe working load 2.500 kg
Length 9 m
Width 2 m