

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.



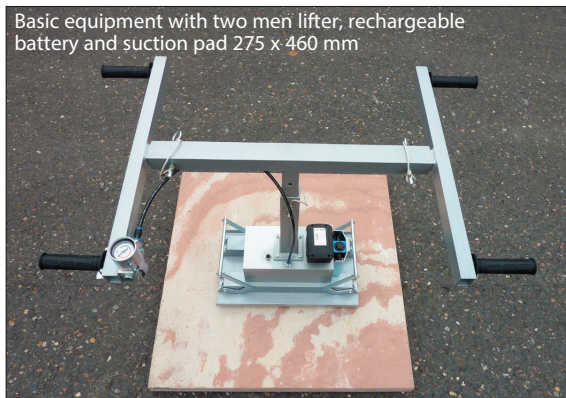
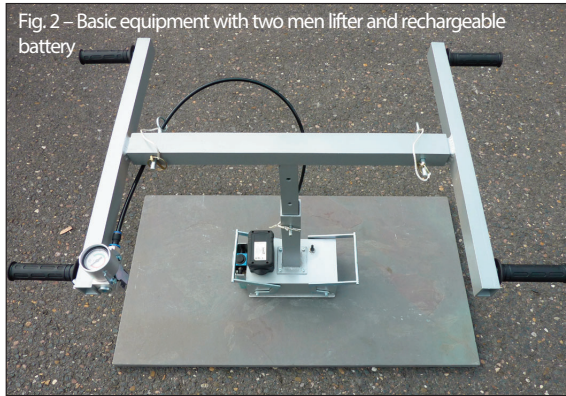
Fig. 1 – Used on site of the new Walt Disney World in Hongkong

Application made for patent

The vacuum lifter – battery- or mains operated

- Ideal for landscape gardeners and natural stone business
- High energy by lithium-ion batteries
- For smooth and rough surfaces
- Suited for almost all air-tight materials like natural stone- or concrete paving ...

Beta Levator - the vacuum lifter for professionals



All smooth/rough and air-tight types of natural stone- and concrete paving can be easily lifted, transported and laid by the Beta Levator. Immediately after the Levator is positioned, it attaches itself securely to the paving.

The Levator releases the paving, 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.

Basic equipment: Vacuum lifter is 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. One man lifter is also available.

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.

Mains operation: The basic equipment is connected to 220 V power pack via a 5 m cable.

Suction pads of specific sizes on request.

Order No.	Model	Carrying Capacity	Width x Length	Weight
816 200-2	Beta Levator with two men lifter and 2 rechargeable batteries *	100 kg **	230 x 275 mm	12.0 kg
049 735	Charger 220 V/12 V			0.6 kg
049 736	Rechargeable battery			0.3 kg
816 201-2	Beta-Levator with one men lifter and 2 rechargeable batteries *	100 kg **	230 x 275 mm	11.0 kg
815 202	Beta-Levator 220 V with two men lifter	100 kg **	230 x 275 mm	12.0 kg
816 400-1	Suction pad 260 x 460 mm with adapter	150 kg **	275 x 460 mm	4.0 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 min. In the case of rough or porous surfaces, the carrying capacity decreases or does not exist.

BETA H-LEVATOR



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



The Beta H-Levator is designed to handle non-porous plates effortlessly and safely in a horizontal position. Due to the rechargeable 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 and operation in a vertical position

Order No.	Model	Dimensions	Carrying Capacity	Weight
817 000	Beta H-Levator with suction plate 220 x 275 mm and two rechargeable batteries	280 x 280 x 480 mm	100 kg*	9 kg
049 735	Charger 220 V / 12 V			0.6 kg
817 010	Remote control for suction / release of the load	120 x 60 x 50 mm		0.3 kg
817 020	Guiding handle to control load	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 sites			

* Maximum carrying capacity 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 at 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.

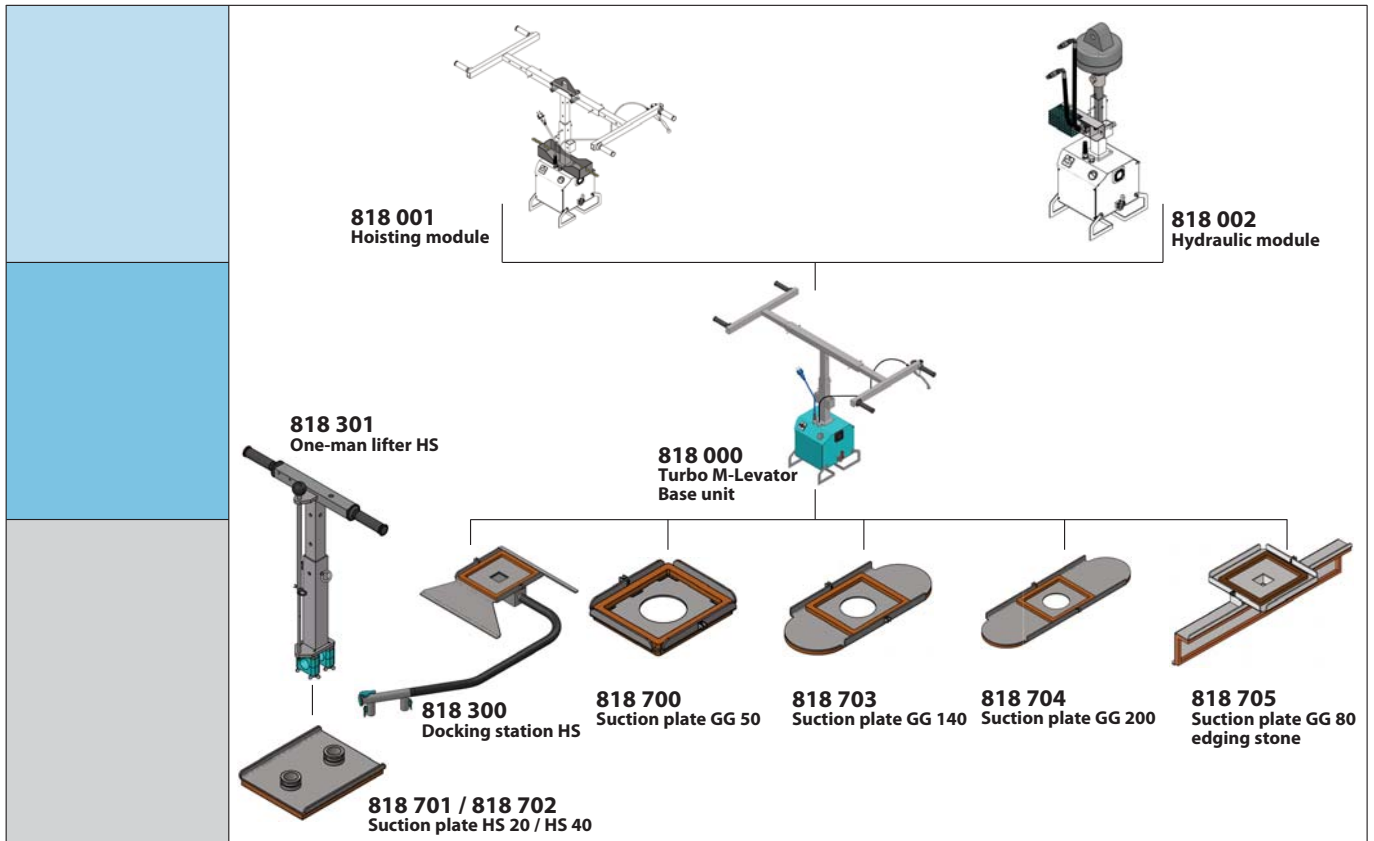
Individual suction plates, for example, for edging stones or border stones are available. Special designs for individual shapes are available on request.



Suction plate for floor indicators



Docking station mit suction plates



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		150	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

TUBI-LEVATOR



Grundgerät
Zwei-Träger
Saugplatte

- Der fahrbare Vakuum-Heber auch für stark poröse Materialien
- Betrieb mit Wechselstrom 230 V - 50 Hz
- Für den manuellen Einsatz



Grundgerät



Grundgerät
Ein-Träger
Saugplatte



Grundgerät mit Zubehör

Tubi-Levator: der Vakuum-Heber auch für stark poröse Materialien

Alle glatten/rauen und luftdurchlässige Platten können mit dem Tubi-Levator problemlos gehoben, transportiert und verlegt werden. Sofort nach dem Aufsetzen saugt sich der Levator fest.

Der Levator gibt die Platte erst wieder frei, wenn Sie es wollen: hierzu wird ein Ventil geöffnet.

Technik: der Tubi-Levator besteht aus einem fahrbaren Gehäuse mit der Saugturbine. Die Saugturbine erzeugt den Unterdruck und wird mit dem Saugschlauch mit der gewünschten Saugplatte verbunden. Die Vakuumkammer der Saugplatte wird durch einen elastischen Gummi abgedichtet. Die Dichtung ist selbstklebend und kann einfach gewechselt werden.

Grundgerät: der Tubi-Levator wird mit einem 5 m langen Stromkabel an das Stromnetz angeschlossen. Das Grundgerät wird mit einem Saugschlauch von 5 m Länge geliefert.

Zubehör: Das Grundgerät kann mit einem manuellen Heber, einem Ein-Träger oder einem Zwei-Träger für den Zwei-Mann-Betrieb ausgestattet werden. Der Zwei-Träger ist in der Höhe von 500 bis 700 mm und in der Breite von 850 bis 1.250 mm verstellbar.

Je nach benötigter Tragfähigkeit sind Saugplatten in verschiedenen Größen verfügbar.

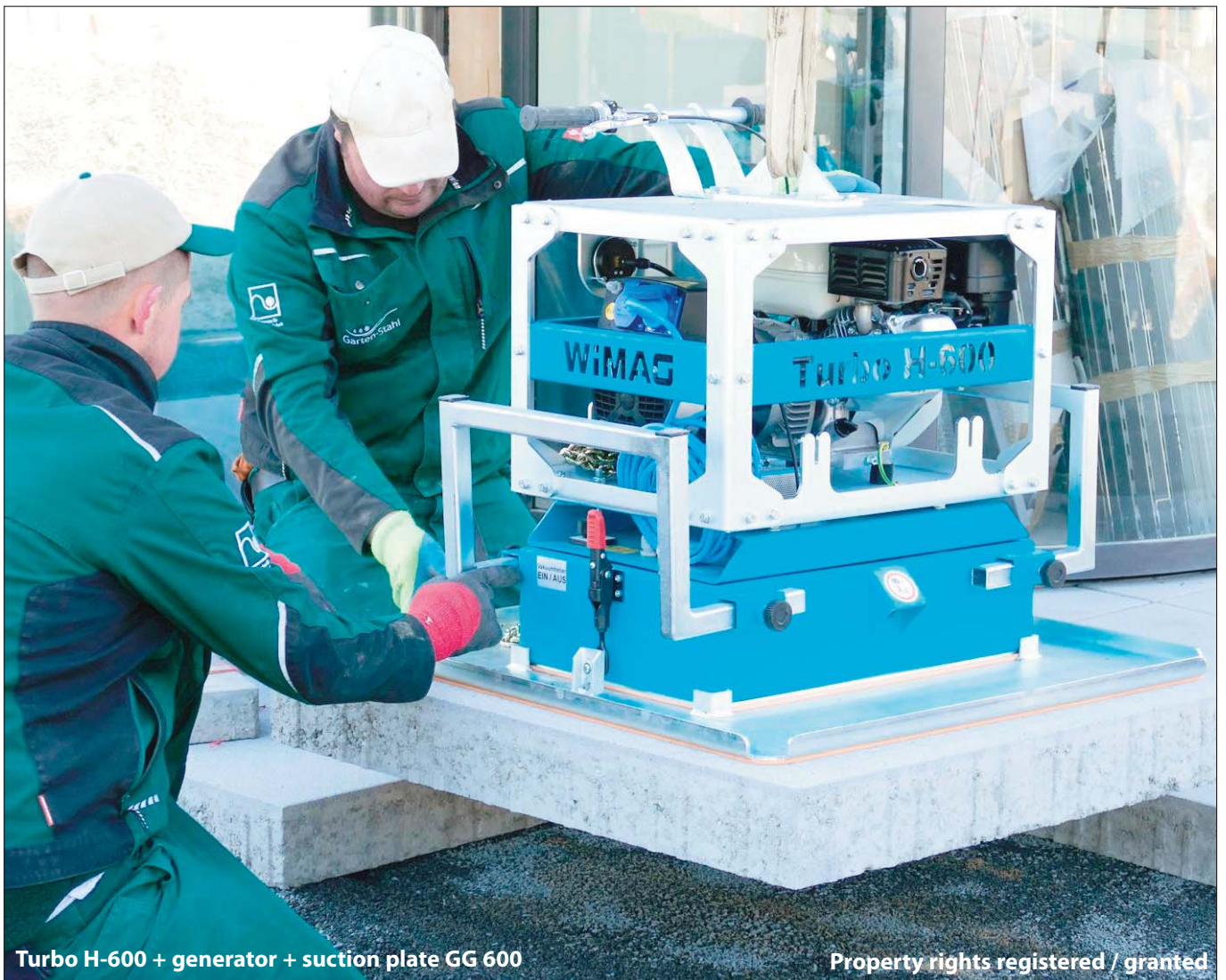
Sonderausführungen auf Anfrage.

Bestell-Nr.	Typ	Tragfähigkeit	Breite x Länge	Gewicht
818 050	Tubi-Levator Grundgerät mit 5m Stromkabel 230 V – 50 Hz und 5 m Schlauch*		330 x 260 x 400 mm	13 kg
818 712	Heber TU 20	20 kg**	150 x 260 mm	1 kg
818 306	Ein-Träger TU			3 kg
818 305	Zwei-Träger TU			7 kg
818 709	Saugplatte TU 50	50 kg**	253 x 270 mm	2 kg
818 710	Saugplatte TU 80	80 kg**	278 x 420 mm	2 kg
818 711	Saugplatte TU 140	140 kg**	320 x 600 mm	3 kg

* Der Vakuum-Heber darf nur im bodennahen Bereich und nicht in Verbindung mit einem Hebezeug verwendet werden.

** Maximale Tragfähigkeit bei optimaler Oberfläche und einem Unterdruck von min. -0,2 bar. Bei rauen oder porösen Oberflächen verringert sich die Tragfähigkeit bzw. ist nicht vorhanden.

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.

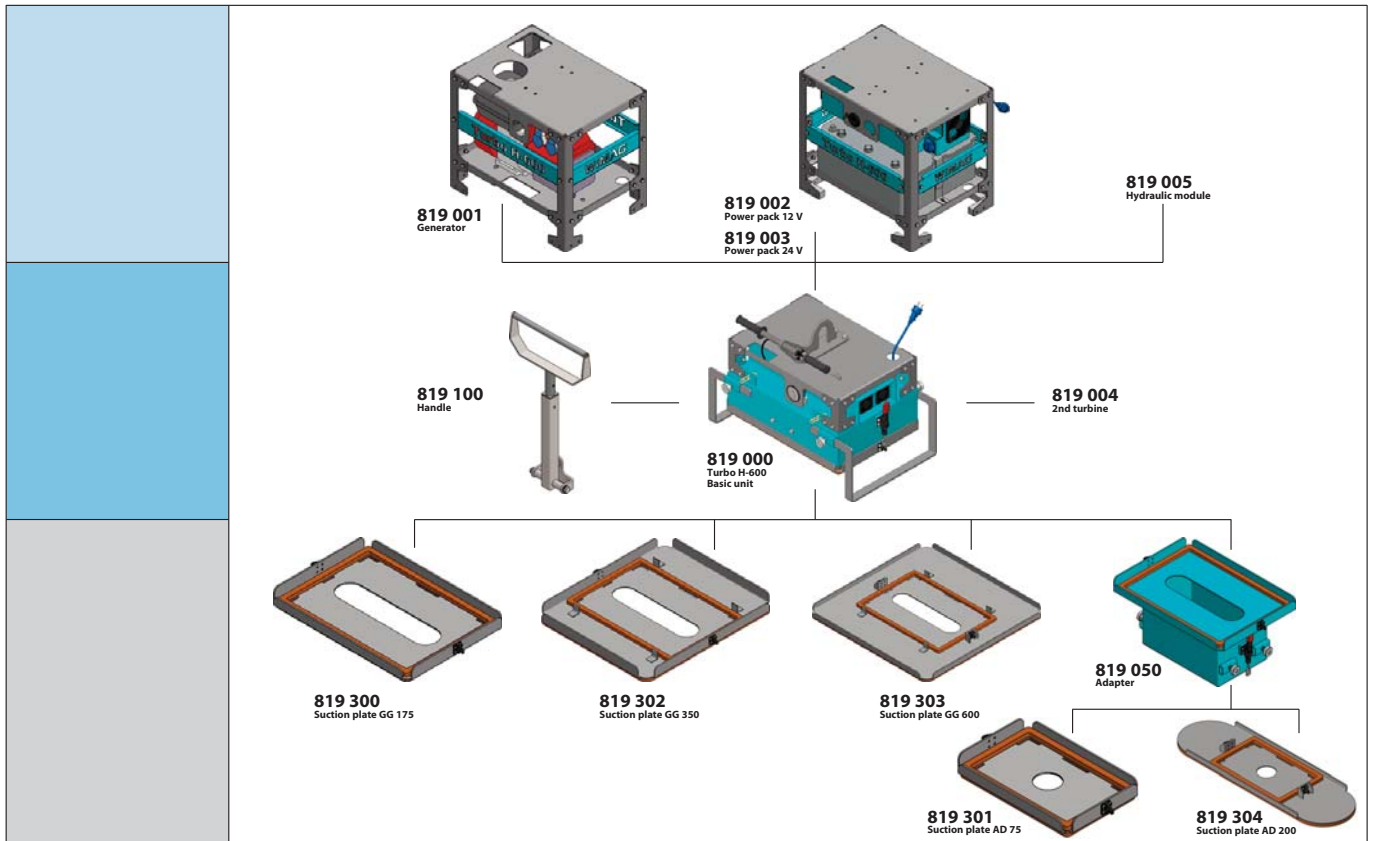
According to EN 13155, the Levator is equipped with two safety chains of 3 m length.

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



- ❑ 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.

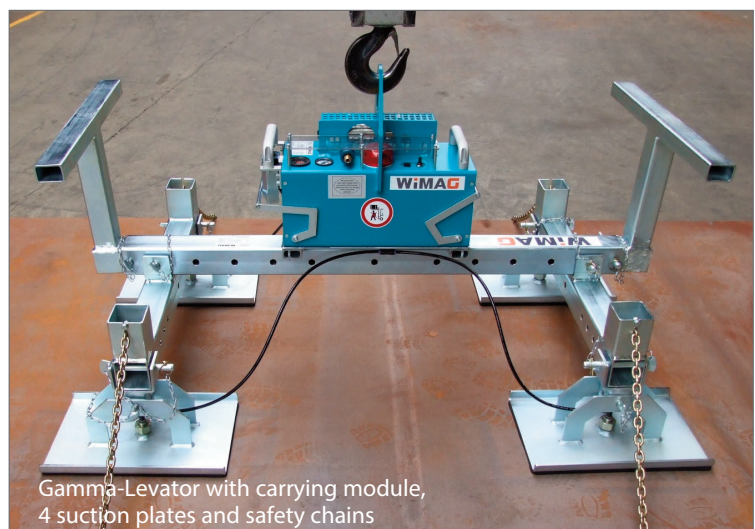
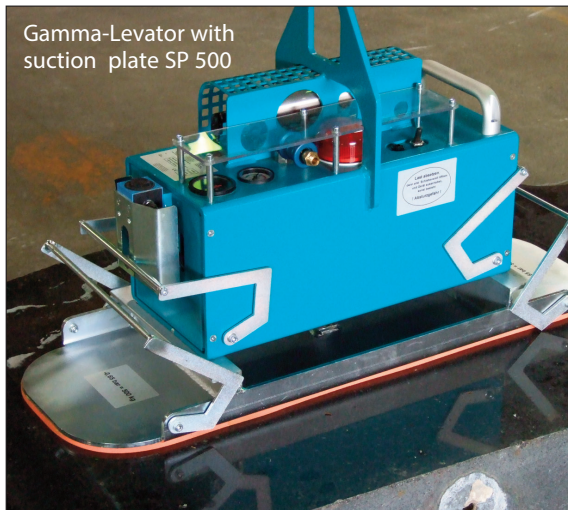
The vacuum is controlled by a visual warning sign, the battery output by a voltmeter.

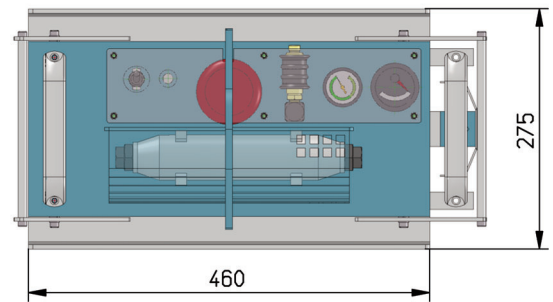
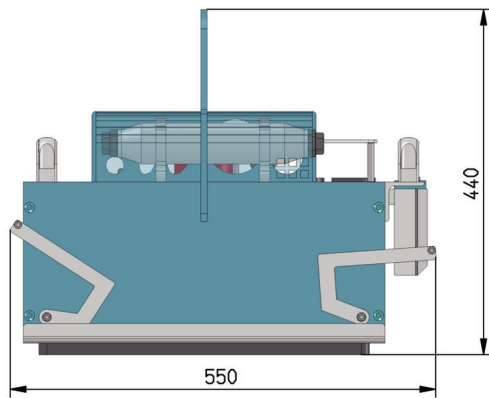
All component parts are packed into a box.

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 160mm	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

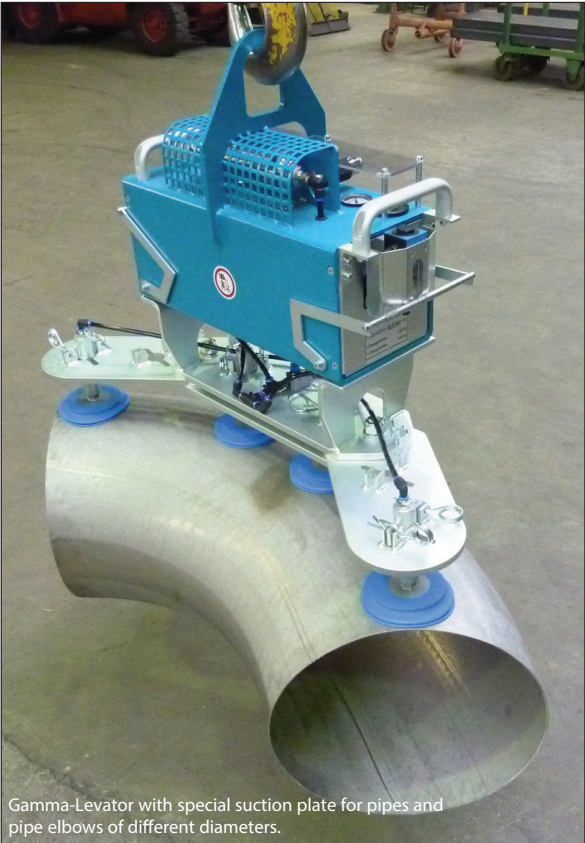


Gamma-Levator with carrying module and 3 suction plates

Applications



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

UNI-LEVATOR



Basic equipment + Safety package + Generator + Carrying module + Suction pad



Einstein 2 lifter



Basic equipment with 2 men lifter and suction pad 2



Basic equipment with suction pad SP 1000

The universal lifter is of modular construction: For manual and machine hoisting operation

You are looking for a vacuum lifter for manual operation, but you want to lift heavy blocks using your excavator as well?

No problem with our Uni-Levator.

The Uni-Levator is of modular construction for nearly any kind of operation and material, like natural and concrete stones. The powerful pump controls difficult material and surfaces, like e.g. steps or kerbstones. The single components are quickly exchangeable.

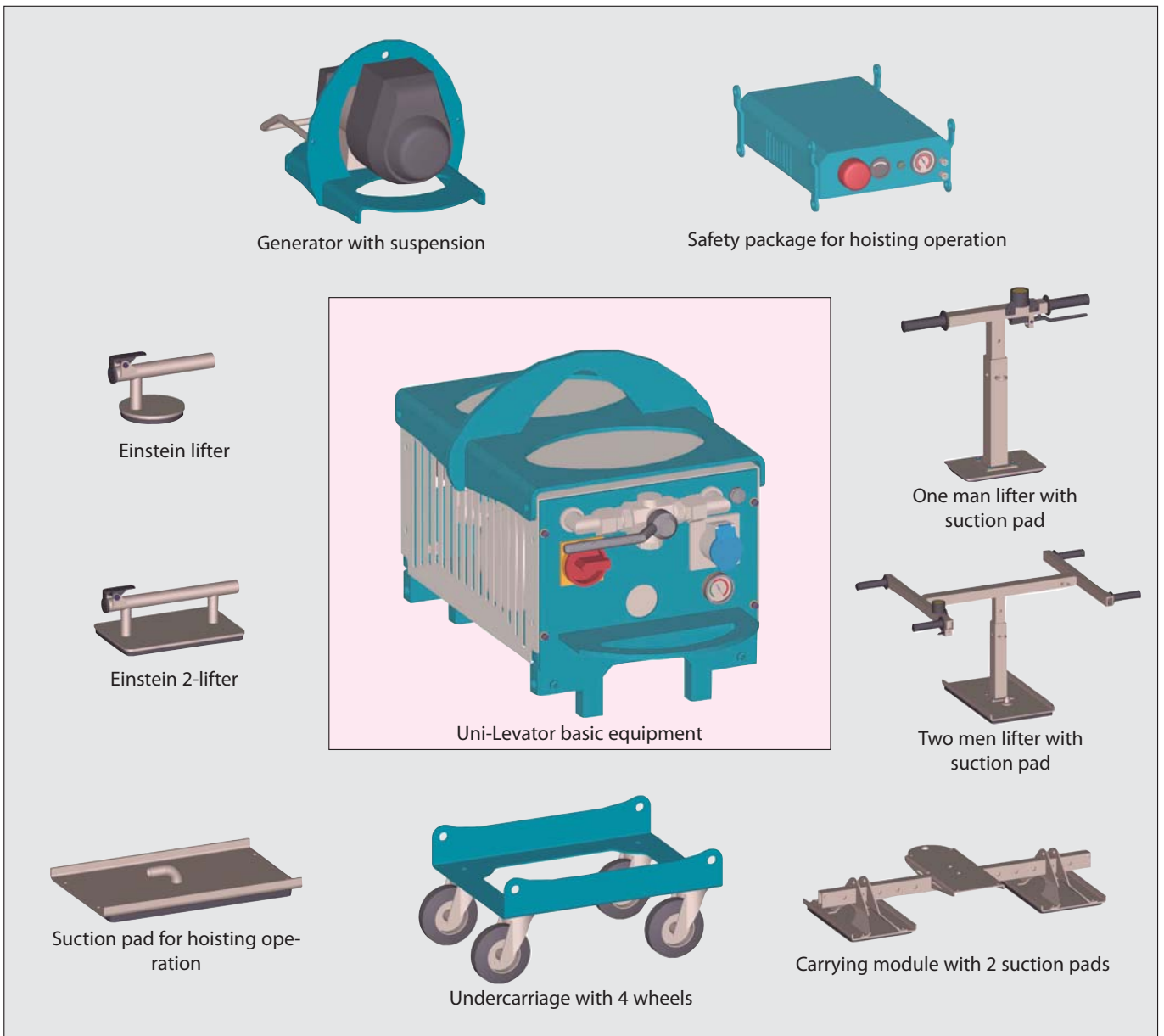
The plates are manually applicable?

No problem; just take the basic equipment, which can be equipped with four wheels for easy movement, connect e.g. the two men lifter frame to the hose pipe of 5 m length. Where no mains are available, just use the generator.

The plates are machine applicable?

Also no problem. Take your basic equipment, suction pad, safety package and the generator, if necessary. Fit in the load hook and start.

The Uni-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.



Specification

Order No.

	<p>Uni-Levator Basic equipment with 10 m feeding cable and suspension, electric mains 230 V - 50 Hz, the vane-type rotary pump is designed for permanent use and reaches 95% vacuum. Furthermore it is very quietly running and low vibration 60dB(A). Carrying capacity up to 2.5 t, depending on the carrying module, suction pads and material. Dimensions 600 x 350 x 400 mm - 60 kg</p>	840 100
	<p>Safety package for hoisting operation Visual and acoustic warning sign, vacuum storage, manometer, voltmeter. 470 x 350 x 120 mm - 20 kg</p>	840 200
	<p>Generator with suspension Honda petrol engine with generator 1.5 KVA, 230 V - 50 Hz, manually operated starting. 500 x 400 x 400 mm - 40 kg</p>	840 300
	<p>Undercarriage with 4 wheels for easy movement. 2 wheels equipped with wheel stop.</p>	840 110
	<p>Suction pad for hoisting operation Carrying capacity 400 kg² / 200 kg¹ 275 x 460 mm - 7 kg</p>	840 150
	<p>Carrying module with 2 suction pads Carrying capacity 800 kg² / 400 kg¹, length of beam 1.500 mm, suction pads turn through 90°. Dimension of suction pad 275 x 460 mm</p>	840 160
	<p>Suction pad SP 1000 for hoisting operation Carrying capacity 1,000 kg², suction pad 650 x 650 mm.</p>	840 163
	<p>One man lifter Height adjustable, aluminium construction with 5 m hose pipe</p>	840 121
	<p>Two men lifter Height and width adjustable, aluminium construction with 5 m hose pipe</p>	840 131
	<p>Suction pad 1 for one man lifter and two men lifter Carrying capacity 50 kg¹, 150 x 230 mm</p>	840 142
	<p>Suction pad 2 for one man lifter and two men lifter Carrying capacity 150 kg¹, 275 x 425 mm</p>	840 151
	<p>Einstein lifter with 5 m hose pipe, suction pad Ø 105 mm, carrying capacity 15 kg¹</p>	840 170
	<p>Einstein 2 lifter with 5 m hose pipe, suction pad 155 x 235 mm, carrying capacity 50 kg¹</p>	840 171
	<p>Safety chains for suction pad 275 x 460 mm</p>	840 401
	<p>Safety chains for suction pad 650 x 650 mm</p>	840 402

Special accessories like tie bars and suction pads with higher capacities or suction pads for preforms on request.

¹ in case of low pressure of at least -0.6 bar, ² in case of low pressure of at least -0.9 bar

Applications



Basic equipment with generator and safety package with suspension for hoisting operation.

Basic equipment with carrying module and 2 suction pads, safety package with suspension for hoisting operation.



Quality control in a production line of concrete stones.

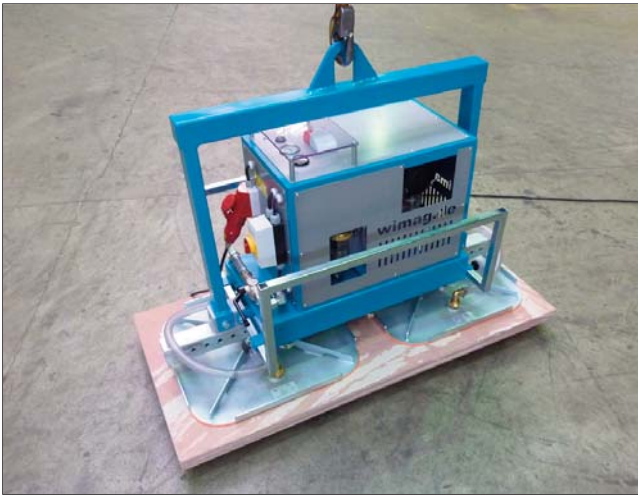
Basic equipment with undercarriage and Einstein lifter.

KAPPA-LEVATOR



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

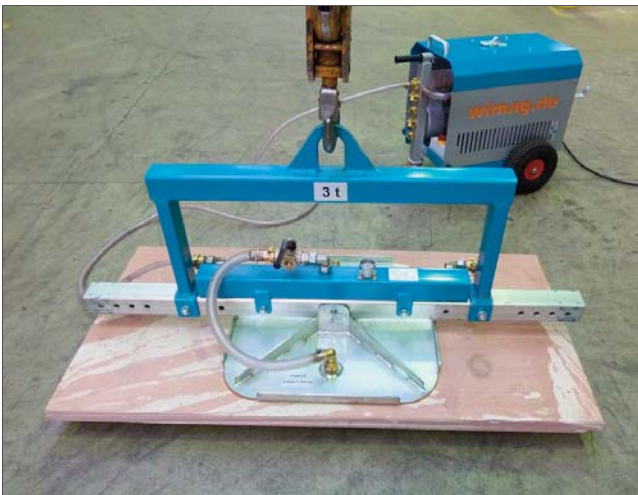
Kappa Levator: the strong vacuum lifter for the handling of natural stones, concrete plates, pipes, metal plates ...



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.

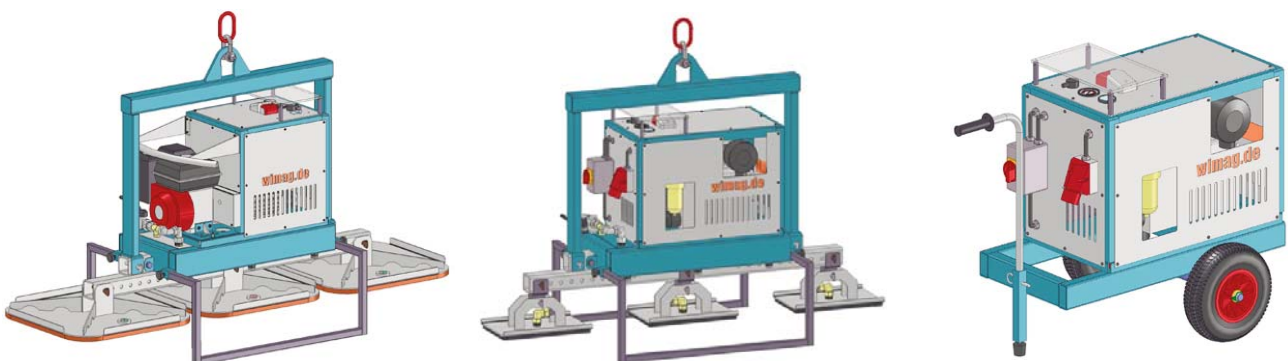
The drive of the vacuum pump is actuated by a petrol engine, an electric motor or the hydraulic system on the lifting equipment (e.g. excavator).



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 requirements: 16l/min, 150 bar, free runback, continuous oil flow)	1,500x750x1,200		160 kg
	860 500	Kappa-Levator is fitted with moveable wheels with electric motor 400 V - 50 Hz	900 x 650 x 750		
Suction pads for operation with lifting equipment	049 044	1 piece suction pad SP 400	270 x 460	400 kg*	8 kg
		2 pieces suction pads SP 400	270 x 1,000	800 kg*	16 kg
		3 pieces suction pads SP 400	270 x 1,500	1,200 kg*	24 kg
049 043	1 piece suction pad SP 1000	650 x 650	1,000 kg*	25 kg	
	2 pieces suction pads SP 1000	650 x 1,500	2,000 kg*	50 kg	
	3 pieces suction pads SP 1000	650 x 2,200	3,000 kg*	75 kg	
		Special suction pads with special carrying modules on request			
Form locking device	860 401	Safety chains for SP 400 and according to EN 13155 for use on construction sites	Working length 3.0 m		8 kg
	860 402	Safety chains for SP 1000 and according to EN 13155 for use on construction sites	Working length 3.0 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 -0.9 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