"Leading the way in vacuum lifting equipment"

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Message from the CEO

Being the son of the inventor of the self-contained vacuum pipe lifter gives me a lot of knowledge in the industry to pass on to our clients. Technology has changed since Klaas Boelema invented the self-contained vacuum lifter in 1988. Being from a younger generation, as a team we have been able to combine simplicity with modern safety and reliability features. Our passion for vacuum lifters literally runs through our veins.

The company's core values are safety, responsibility, service and quality. With a strong passion for innovation, Vlentec has continued to improve its vacuum lifters by hunting for new techniques and applications. With an active presence in pipeline organisations such as the IPLOCA (International Pipe Line & Offshore Contractors Association) we are sharing our knowledge to improve the industry.

At Vlentec we strive to offer the best client experience. Not only technology wise, have we made great changes over the past year. Large steps have been taken on the product availability and service front. We have equipment and spares availible immediately in the Americas, Europe, Middle East, Africa and Australia and a still growing amount of service partners in other areas such as Asia . Our equipment is designed to only require minimal service which can be done by any competent mechanic. However our team is availible 24/7 when you need a hand.

Vlentec's success is based on the ability to make use of the knowledge and experience gained through consistent improvement activities for many years. Investment in Research and Development gives even greater importance to our ambition: "Leading the way in vacuum lifting equipment".

Brendan Boelema
CEO

Vlentec and it's subsidiaries are a 100% family owned company. Owned by Klaas Boelema (Technical Director, left) and Brendan Boelema (CEO, right).

The Vlentec vacuum pipe lifter

The application of the vacuum pipe lifter

By using a vacuum pipe lifter, attributes such as hooks, magnets, chains and slings are obsolete. The vacuum lifter is fully operated by the excavator/crane operator and reduces required staff to 1-2 persons. Staff is not required on the trucks and stockpile therefor lost time incidents are drastically reduced. Furthermore pipe handling with a vacuum lifter is 10x faster than conventional methods drastically reducing equipment and labour costs. Vacuum lifters can be designed to handle all kinds of shapes of loads such as pipes, tubes, slabs and plates. Vlentec vacuum lifters work outstanding with steel, composite, concrete and coated pipes. You will find our products in pipeline constructions, pipe factories, stockpiles and ports all over the world.

How a vacuum lifter works

All Vlentec vacuum pipe lifters are equipped with a large tank that is kept under vacuum. By a direct acting valve the vacuum is connected to the suction pad, vacuum arises between the suction pad and the pipe. Due to the pressure difference between the in- and outside of the suction pad, it will 'suck' to the load. The lifting capacity is determined by the model lifting beam and size of the suction pad.

The advantages of a vacuum pipe lifter

Safety—No staff needed to climb trucks or stockpiles therefore no chance of slipping. Staff is not allowed/needed near load . Many safety measures ensure the load is safe at all times. In case of an engine or pump failure the load will remain safe.

No damage to pipe/coating—All contact between pipe and seal is with soft rubber seal or polyurethane guide wheels that will not damage the pipe. Due to the large lifting surface of the suction pad, the coating only needs to withstand light forces op up to 0.4kg/cm2.

Faster handing—Pipe handling is more than 10x faster than conventional methods.

Low labour costs—The vacuum lifter is only controlled by the excavator operator. Other staff is not required, drastically reducing labour costs.

Low equipment investment—The vacuum lifter can be fitted and removed within minutes from one of the excavators that are commonly availible along pipelines. A dedicated machine is not required.

Low cost of ownership—All Vlentec vacuum pipe lifters are designed to required very little maintenance and can be serviced by local mechanics.

VLENTEC VACUUM LIFTER COMPARISMENT					
CARRIER	**OPERATION**	**TIME (min per truck-load)**	**MATERIAL REQUIRED**	**STAFF**	**ANNUAL LABOUR COST (based on the same amount of work) in US$***
SIDE BOOM	LOAD	45 To 75	Guide Ropes Slings Lifting Hooks	1 OPERATOR 4 ASSISTANTS	
	UNLOAD	45 To 75	Guide Ropes Slings Lifting Hooks	1 OPERATOR 4 ASSISTANTS	$ 829,980.00
	STRINGING	50 To 80	Guide Ropes Slings Lifting Hooks	1 OPERATOR 4 ASSISTANTS	
CRANE	LOAD	60	Guide Ropes Slings Lifting Hooks	1 OPERATOR 4 ASSISTANTS 1 RIGGER	$ 1,327,968.00
	UNLOAD	60	Guide Ropes Slings Lifting Hooks	1 OPERATOR 4 ASSISTANTS 1 RIGGER	
	STRINGING	N.A.			
VLENTEC VACUUM PIPE LIFTER	LOAD	5 To 7	NONE	1 OPERATOR 1 ASSISTANT	
	UNLOAD	5 To 7	NONE	1 OPERATOR 1 ASSISTANT	$ 36,888.00
	STRINGING	10 To 15	NONE	1 OPERATOR 1 ASSISTANT	

Chart and times based on (un)loading or stringing of one truck load of 7 or 8 pipes, 20 to 22 inch diameter, 12 meters long.

Above mentioned chart is written by GDK S.A., Brazil. Times, nr of staff and labour cost based on experience from the Samarco Slurry pipeline project.

Amount of staff required may differ based on local conditions and regulations. Stringing conditions on the above project were not ideal. The pipeline was built through the mountains with insufficient space to have the truck, excavator and pipes together along the right of way. Therefore, the operator had to pick-up the pipe and drive with it to the final destination.

ED125N Electric vacuum pipe lifter

Efficiency and reliability with the electric powered vacuum pipe lifter with a lifting capacity of up to 12,500kg.

The ED125N is the latest development in vacuum pipe lifting. Powered by the excavator's battery and alternator, the vacuum lifter minimalizes maintenance, noise, emissions and equipment wear and tear. It can be fitted to any excavator within minutes, without needing to customize the excavator.

Some key features are:

Safety

The low noise and zero exhaust emissions make the vacuum pipe lifter idea for work in confined spaces or in urban areas. Communication amongst staff is easier.

Efficiency

A compact strong motor directly drives a the high performance vane vacuum pump. No gears, belts or couplings are used between the pump and motor for maximum efficiency.

The motor-pump combination starts and stops automatically depending on the vacuum pressure in the vacuum tank. Therefore, drastically cutting the pumps running hours and minimalizing maintenance.

Low maintenance

By eliminating the diesel engine, maintenance is minimalized as there is no fuel filtering required, there is no engine air intake filter and no oil replacement for motor. Besides that, the vacuum pump only runs a fraction of the time thus also requires far less maintenance.

Easy installation

The vacuum lifters are supplied with all components to connect to your handling device. Installing the vacuum lifter to an excavator can be done in a matter of minutes.


Keep 6 meters clear of load and unit.
ED125N
Max lift cap (SWL):

ED125N FEATURES

Low maintenance electric pump

Automatic start-stop system drastically reduces pump running hours and thus maintenance.
Silent pump increased work site safety.
High efficiency oil cooled pump that can create 99% vacuum.
No vibrations and electric soft starter increases reliability.
Load remains safe, even with power loss.

Remote control with built in alarm and vacuum pressure reading on screen

The remote control continuously indicates the vacuum pressure on the screen.
If the pressure would drop below the safe lifting pressure an audio and visual alarm will sound on the remote control.

Direct acting vacuum valve

Maintenance free valve.
Purpose designed.
Allows to lift and release a pipe in 1-2 seconds.
The valve does not require continuous electrical power, which makes it safe and easy to understand

Electronics simple and wiring is double protected

The vacuum lifters electronics are kept simple. Each component has an individual connection to the electric junction box and connects straight to the main circuit board.
It is not possible to jeopardise the power supply from the excavator as the unit has unlimited rotation through the heavy duty slipring.

Integrated forklift sleeves

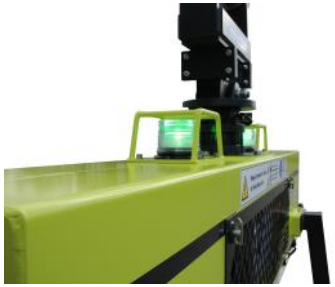
Sleeves in lifting beam to use on heavy duty forklifts.
Sleeves are also used to fit vacuum lifter legs, which are included with the unit.
The legs protect the seals from damaging and the pad from dust.

Attachments for different loads

The vacuum lifter can be fitted with attachments for:
-Standard rigid pipes
-Flexible plastic pipes
-Slabs and plates
-Pipe joiners
-And more.

Compact and light lifting beam

The light lifting beam can handle pipes up to 12.500kg.
Can be used on excavator, crane, forklift, side boom and more.
Lifting beam protects internal components.
Beam doubles as a large vacuum tank for safety and quick lifting.



Heavy duty dual colour flashers

High output flashers indicate a constant green signal when safe or a flashing red signal with audio alarm when unsafe.
Two flashers fitted on each end of the unit, always visible to everyone.
Alarm system always runs on a backup battery.

Technical Specifications:

- External powered lifting beam, electric driven, power supply from excavator and wireless remote controlled.
- Capacity (SWL) of the beam is 12,500KG (27,557 lbs.)
- Supplied standard with lifting lugs to fit suction pads suitable for rigid pipes. Lifting beam can be fitted with extension beams to lift extra flexible and long pipes such as HDPE pipes.
- Lifting beam can be fitted with 2 different hydraulic rotators; the Adapter-Rotator combination AD-RP-15 with the ED125N has a maximum lifting capacity of 12,500kg. The Adapter-Rotator combination AD-RV-8 with the ED125N has a maximum lifting capacity of 7,500kg.
- Approx. weight beam 611Kg (1,346 lbs.) Approx. dimensions of beam only: 2,550 x 550 x 750mm (98.4 x 21.7 x29.5 inch)
- Lifting beam has integrated 2 sleeves for use of vacuum lifter with forklift. Dimensions of sleeves 234mm(W) x 114mm(H), centres 1842mm apart.
- 24VDC, 1,3Kw silent and maintenance free electric motor (2000rpm) with soft start directly fitted to vacuum pump.
- Vacuum pump with a capacity of 40 cubic meter per hour (1,412 cubic foot per hour), ultimate vacuum 10 mbar(0.14 psi) (99% vacuum).
- A vacuum pressure switch disengages the motor/pump when max pressure is reached (start-stop system). Minimalizing power consumption and maintenance.
- 2 stage air filtration, to reduce maintenance (costs) and increase reliability. The first stage of filtration is a stainless-steel mesh filter that can be washed and reused. Seconds stage is a paper filter with an extremely high filtration grade.
- Lifting beam vacuum tank approx. 343 litres (90.6 gal(US)).
- Flexible high efficiently 2x35mm2 cable with double isolation, connectors and fuses included with the unit.
- Main fuse/junction box in sealed enclosure. Each component has individual connectors on the circuit board for easy replacement of components.
- Our heavy duty vacuum valve is bi-stable. It does not need continuous holding power and only requires an electrical pulse to switch position.
- The vacuum lifter is equipped with a separate 24VDC battery powered circuit for the controls and alarms. During a loss of power supply the alarms and controls will remain functional and load will remain safe. This circuit is constantly charged when the power supply from the excavator is active.
- The vacuum on and off functions are by wireless remote control, in compliance with all applicable standards and many safety features. The operator must press 2 OFF buttons on the remote control simultaneously to release the load, minimalizing the chance of accidental release of load. Vacuum pressure in the vacuum tank is presented on the remote controls screen. In the event of low vacuum pressure, audio and visual alarms will sound on the remote control. Remote control supplied with cabin holder with integrated charger, 12-24Vdc charger and 110-240Vac charger.
- The unit is fitted with comprehensive visual and audio alarms for low vacuum, including 2 dual colour flashers and a beeper. Alarms are switched by a digital pressure sensor for precise warnings.
- The unit is designed to fail to a safe condition: In case of pump failure, power failure or all other possible failures, the load will not fall.
- After loss of power supply, the load will be held for at least 25 minutes (worst-case scenario) however when well maintained the load will remain safe for days when suspended.
- The vacuum lifter is designed to be very easy to service, overview and use.
- The shape of the frame protects the pump, motor and other components from weather, dust, UV radiation, oils etc.
- Lifting beam is fitted with 2 large (100mm) industrial liquid filled vacuum gauges ideally positioned for optimal viewing from the cabin.
- Standard including manuals and safety stickers in the English, Spanish, Dutch, Portuguese or French language.
- Suction pads can be interchanged in minutes. Only 2 pins and one quick fitting needed to be undone.
- The beam can be fitted with two lifting lugs to make it suitable for crane use.
- Lifting beam supplied with a set of 4 legs for easy storage.
- Including manuals and safety stickers in English. Spanish, Dutch, Portuguese, French manuals and stickers are also available free of charge.
- Certification of lifter in accordance with European Machinery Directive 2006/42/EG. Complies with Australian AS and US ANSI Standards.
- For indoors and outdoors use.

SC125N Diesel vacuum pipe lifter

The most versatile vacuum pipe lifter ever is the SC125N-D. Able to handle short and long pipes including double joints of any pipe material. This unit can be attached to practically any lifting device such as excavators, cranes, forklifts, side boom etc. The SC125N has a lifting capacity of up to 12,500kg.

Some key features are:

Versatility

One machine that can take on any project is a key advantage of the SC125N-D vacuum lifter. The lifting beam can be fitted with many types of attachments such as:
Lifting attachments; light duty rotator, heavy duty rotator, crane lifting lugs and single crane lug. Forklift sleeves are already integrated in the lifting beam.
Load attachments; single suction pad lugs, extension beams for flexible pipes, attachments for plates/slabs and hydraulic pipe joiner.

Reliability and easy maintenance

All Vlentec' s vacuum pipe lifters are designed to last in harsh conditions and in areas far from civilisation. Reliability is a must and all maintenance should be straight forward. Therefore, every part is specifically designed to withstand any condition.

Safety

The vacuum pipe lifter is equipped with many safety features to ensure safe and correct lifting of the load. Visual high output LED flashers indicate safe (constant green) or unsafe (flashing red) vacuum pressure and is backed up by an audio alarm. The alarms are switched by a digital pressure sensor for quick, reliable and exact alarm switching.
The vacuum pipe lifter is controlled by a wireless remote control to lift or release the load. Which is fitted with a screen which indicates the vacuum pressure level in the suction pad, if the level is to be too low, alarms on the vacuum lifter as well as on the remote control will sound. Release of load is always a two handed operation.

Pump and engine

The vacuum pipe lifter is powered by its own electric start diesel engine, which is specially designed to drive the vacuum pump. This allows the diesel engine to run on its optimal RPM's without the use of a gearbox or belt.


Cap. max de levante:
12.500kg
12.500kg
7.500kg
12.500kg

SC125N FEATURES

High efficiency diesel engine and pump combination

The purpose designed diesel engine runs at optimal rpm's.
No gearbox or belts, no loss of energy in transitions.
High efficiency 72m3/h oil cooled pump that can create 99% vacuum

Remote control with built in alarm and vacuum pressure reading on screen

The remote control continuously indicates the vacuum pressure on the screen.
If the pressure would drop below the safe lifting pressure an audio and visual alarm will sound on the remote control.

Direct acting vacuum valve

Maintenance free valve.
Purpose designed.
Allow to lift and release a pipe in 1-2 seconds.
The valve does not require continuous electrical power, which makes it safe and easy to understand

Electronics simple and wiring is double protected

The vacuum lifters electronics are kept simple. Each component has an individual connection to the electric junction box and connects straight to the main circuit board.

Integrated forklift sleeves

Sleeves in lifting beam to use on heavy duty forklifts.
Sleeves are also used to fit vacuum lifter legs, which are included with the unit.
The legs protect the seals from damaging and the pad from dust.

Attachments for different loads

The vacuum lifter can be fitted with attachments for:
-Standard rigid pipes
-Flexible plastic pipes
-Slabs and plates
-Pipe joiners
-And more.

Compact and light lifting beam

The light lifting beam can handle pipes up to 12.500kg.
Can be used on excavator, crane, forklift, side boom and more without special attachments.
Lifting beam protects internal components.
Beam doubles as a large vacuum tank for safety and quick lifting.

Heavy duty dual colour flashers

High output flashers indicate a constant green signal when safe or a flashing red signal with audio alarm when unsafe.
Two flashers fitted on each end of the unit, always visible to everyone.
Alarm system always runs on a backup battery.

Technical specifications:

- Fully self-contained lifting beam, diesel driven and wireless remote controlled.
- Capacity (SWL) of the beam is 12,500KG (27,557 lbs.)
- Approx. dimensions of beam only: 2,550 x 550 x 990mm (98.4 x 21.7 x39 inch)
- Approx. weight beam only: 680 kg (1,500 lbs.) (with single pad lugs)
- Supplied standard with lifting lugs to fit suction pads suitable for rigid pipes (single and double joint pipes). Lifting beam can be fitted with extension beams to lift extra flexible and long pipes such as HDPE pipes.
- Diesel engine 4.5 hp with approx. 19.3 litres (5.1gal(US)) fuel tank. Fitted with electric starter. Unit can run 27+ hours without refuelling (at full speed).
- Vacuum tank capacity approx. 372 litres (98.27 gal(US)).
- Vacuum pump with a capacity of 72 cubic meter per hour (2.542 cubic foot per hour), ultimate vacuum 10mbar (0.14psi) (99% vacuum).
- The vacuum pump is specially designed to match the engine perfectly, resulting in a very efficient, long living combination.
- 2 stage air filtration, to reduce maintenance (costs) and increase reliability. The first stage of filtration is a stainless-steel mesh filter that can be washed and reused. Seconds stage is a paper filter with an extremely high filtration grade.
- The unit can be fitted with an optional load detector switch. If the load is suspended it cannot be released. Only when the pipe is on the ground it can be released (optional). This system fully prevents accidental release of load while lifting.
- Can be fitted with Rotator-Adaptor combination AD-RV-8 (combined lifting capacity of 7.500kg) and AD-RP-15 (combined lifting capacity of 12.500kg). Note: this is only required for excavator use.
- Lifting beam has integrated 2 sleeves for use of vacuum lifter with forklift. Dimensions of sleeves 234mm(W) x 114mm(H), centres 1842mm apart.
- The lifter is equipped with a separate 12VDC battery circuit for the controls and alarms. During a loss of power supply from the excavator the alarms and controls will remain enabled.
- Main fuse/junction box in sealed enclosure. Each component has individual connectors on the circuit board for easy replacement of components.
- The vacuum on and off functions are by wireless remote control, in compliance with all applicable standards and many safety features. The operator must press 2 OFF buttons on the remote control simultaneously to release the load, minimalizing the chance of accidental release of load. Vacuum pressure in the vacuum tank is presented on the remote controls screen. In the event of low vacuum pressure, audio and visual alarms will sound on the remote control. Remote control supplied with cabin holder with integrated charger, 12-24Vdc charger and 110-240Vac charger.
- The unit is fitted with comprehensive visual and audio alarms for low vacuum, including 2 dual colour flashers and a beeper. Alarms are switched by a digital pressure sensor for precise warnings.
- The unit is designed to fail to a safe condition: In case of engine failure, power failure or all other possible failures, the load will not fall.
- If daily leak inspection is performed correctly, the unit will hold the load for at least 25 minutes while alarms sound and pump is off. With (almost) no leaks (in the rubber seal) the unit will hold the load for days with the pump switched off.
- The main beam of the lifter is also a vacuum tank, which means that in case of power failure, there will be a lot of vacuum available to keep the load safe.
- Our heavy duty vacuum valve is bi-stable. It does not need continuous holding power and only requires an electrical pulse to switch position.
- Therefor it is easy to use and understand and its maintenance free.
- The vacuum lifter is designed to be very easy to service, overview and use.
- The shape of the frame protects the pump, motor and other components from weather, dust, UV radiation, oils etc.
- Lifting beam supplied with a set of 4 legs for easy storage.
- Standard including manuals and safety stickers in the English, Spanish, Dutch, Portuguese or French language.
- Pads can be interchanged in minutes. Only 2 pins and one quick fitting need to be undone.
- Certification of lifter in accordance with European Machinery Directive 2006/42/EG. Complies with Australian AS and US ANSI Standards.
- For indoors and outdoors use.

SC250N Vacuum pipe lifter

Heavy duty 25,000kg lifting capacity to handle the toughest jobs.
The SC250N is Vlentec's largest standard vacuum pipe lifter which can handle any pipe up to 25,000kg.It can be fitted to any handling device such as excavator, crane and side boom. The integrated crane lugs make it possible to fit the vacuum pipe lifter to a crane without any extra parts. Also integrated in the frame are heavy duty forklift sleeves to fit the vacuum lift to a forklift.
Suction pads from other models can be fitted to this vacuum pipe lifter as Vlentec uses a standardized pad connection.
Some key features are:

Reliability and easy maintenance

All Vlentec' s vacuum pipe lifters are designed to last in harsh conditions and in areas far from civilisation. Reliability is a must and all maintenance should be straight forward. Therefore, every part is specifically designed to withstand any condition.

Safety

The vacuum pipe lifter is equipped with many safety features to ensure safe and correct lifting of the load. Visual high output LED flashers indicate safe (constant green) or unsafe (flashing red) vacuum pressure and is backed up by an audio alarm. The alarms are switched by a digital pressure sensor for quick, reliable and exact alarm switching.
The vacuum pipe lifter is controlled by a wireless remote control to lift or release the load. Which is fitted with a screen which indicates the vacuum pressure level in the suction pad, if the level is too low, alarms on the vacuum lifter as well as on the remote control will sound. Release of load is always a two handed operation.

Pump and engine

The vacuum pipe lifter is powered by its own electric start diesel engine, which is specially designed to drive the vacuum pump. This allows the diesel engine to run on its optimal RPM's without the use of a gearbox or belt.


Keep 6 meters clear of load and unit.
Max lift cap (SWL)

SC250N FEATURES

High efficiency diesel engine and pump combination

The purpose designed diesel engine runs at optimal rpm's.
No gearbox or belts, no loss of energy in transitions.
High efficiency 72m3/h oil cooled pump that can create 99% vacuum

Remote control with built in alarm and vacuum pressure reading on screen

The remote control continuously indicates the vacuum pressure on the screen.
If the pressure would drop below the safe lifting pressure an audio and visual alarm will sound on the remote control.

Direct acting vacuum valve

Maintenance free valve.
Purpose designed.
Allow to lift and release a pipe in 1-2 seconds.
The valve does not require continuous electrical power, which makes it safe and easy to understand

Electronics simple and wiring is double protected

The vacuum lifters electronics are kept simple. Each component has an individual connection to the electric junction box and connects straight to the main circuit board.

Integrated forklift sleeves

Sleeves in lifting beam to use on heavy duty forklifts.
Sleeves are also used to fit vacuum lifter legs, which are included with the unit.
The legs protect the seals from damaging and the pad from dust.

Integrated crane lifting lugs

No additional attachments are required to fit the vacuum pipe lifter to a crane. Simply hook-up and start work.
Crane lugs are designed to handle loads up to 25.000kg.

Heavy duty, light lifting beam

The light lifting beam can handle pipes up to 12.500kg.
Can be used on excavator, crane, forklift, side boom and more without special attachments.
Lifting beam protects internal components.
Beam doubles as a large vacuum tank for safety and quick lifting.

Heavy duty dual colour flashers

High output flashers indicate a constant green signal when safe or a flashing red signal with audio alarm when unsafe.
Two flashers fitted on each end of the unit, always visible to everyone.
Alarm system always runs on a backup battery.

Technical specifications:

- Fully self-contained lifting beam, diesel driven and wireless remote controlled.
- Capacity (SWL) of the beam is 25.000kg (55.115lbs.).
- Approx. dimensions of beam only: 2,550 X 550 X 1114 MM (98,4 x 21,7 x43,85 inch).
- Approx. weight beam only: 788 kg (1737 lbs.)
- Diesel engine 4.5 hp with approx. 27.75litres (7,33-gal(US)) fuel tank. Fitted with electric starter. Unit can run 40+ hours without refuelling (at full speed).
- Vacuum tank approx. 417 litres (110.15 gal(US)).
- Vacuum pump with a capacity of 72 cubic meter per hour (2.542 cubic foot per hour), ultimate vacuum 10mbar (0.14psi) (99% vacuum).
- The vacuum pump is specially designed to match the engine perfectly, resulting in a very efficient, long living combination.
- 2 stage air filtration, to reduce maintenance (costs) and increase reliability. The first stage of filtration is a stainless-steel mesh filter that can be washed and reused. Seconds stage is a paper filter with an extremely high filtration grade.
- Can be fitted with Rotator-Adaptor combination AD-RP-15 (combined lifting capacity of 15.000kg), AD-RV-20 (combined lifting capacity of 20.000kg), or AD-RV-25 (combined lifting capacity of 25.000kg). Note: this is only required for excavator use.
- The beam has two integrated lifting lugs to make it suitable for crane use.
- The lifter is equipped with a separate 12VDC battery circuit for the controls and alarms. During a loss of power supply from the excavator the alarms and controls will remain enabled.
- Lifting beam has integrated 2 sleeves for use of vacuum lifter with forklift. Dimensions of sleeves 234mm(W) x 114mm(H), centres 1842mm apart.
- The vacuum on and off functions are by wireless remote control, in compliance with all applicable standards and many safety features. The operator must press 2 OFF buttons on the remote control simultaneously to release the load, minimalizing the chance of accidental release of load. Vacuum pressure in the vacuum tank is presented on the remote controls screen. In the event of low vacuum pressure, audio and visual alarms will sound on the remote control. Remote control supplied with cabin holder with integrated charger, 12-24Vdc charger and 110-240Vac charger.
- The unit is fitted with comprehensive visual and audio alarms for low vacuum, including 2 dual colour flashers and a beeper. Alarms are switched by a digital pressure sensor for precise warnings.
- The unit is designed to fail to a safe condition: In case of engine failure, power failure or all other possible failures, the load will not fall.
- If daily leak inspection is performed correctly, the unit will hold the load for at least 25 minutes while alarms sound and pump is off. With (almost) no leaks (in the rubber seal) the unit will hold the load for days with the pump switched off.
- The main beam of the lifter is also a vacuum tank, which means that in case of power failure, there will be a lot of vacuum available to keep the load safe.
- Our heavy duty vacuum valve is bi-stable. It does not need continuous holding power and only requires an electrical pulse to switch position.
- The vacuum lifter is designed to be very easy to service, overview and use.
- The shape of the frame protects the pump, motor and other components from weather, dust, UV radiation, oils etc.
- Lifting beam supplied with a set of 4 legs for easy storage.
- Including manuals and safety stickers in English. Spanish, Dutch, Portuguese, French manuals and stickers are also available free of charge.
- Pads can be interchanged in minutes. Only 2 pins and one quick fitting need to be undone.
- Lifting beam is fitted with 2 large (100mm) industrial liquid filled vacuum gauges ideally positioned for optimal viewing from the cabin.
- The beam has two integrated lifting lugs to make it suitable for crane use.
- Certification of lifter in accordance with European Machinery Directive 2006/42/EG. Complies with Australian AS and US ANSI Standards.
- For indoors and outdoors use.

Custom made lifters and forklift vacuum lifters

When your needs cannot be met within the range of standard vacuum lifters, Vlentec is able to design a Custom Made vacuum lifter within a short period of time. All designs are according to the safety standards and core values of Vlentec. Until now our engineers have designed vacuum lifters with a maximum lifting capacity of 45.000kg.

Forklift plate lifters

Forklift plate lifters are practically a standard machine within Vlentec products. Using a vacuum lifter with one of the most common lifting devices to safely lift and not damage plates is an ideal setup. The combination of a standard forklift with a vacuum lift is a most suitable way of handling heavy plates safely, efficiently and damage free. Using a magnet would not ensure you are lifting just one plate when plates are stacked. Therefor vacuum is the only safe method.

Using a single row of suction pads keeps the load and lifter close to the forklift. The forklift plate lifter is equipped with an integrated diesel engine and sleek beam which also serves as a large vacuum tank. All suction pads are spring loaded to suck on to plates that are not 100% flat.

Crane plate and slab lifters

Crane vacuum plate lifters can be designed to lift any weight or shape object. From harbour crane or single/double hoist gantry crane, Vlentec has the expertise to design and manufacture the most efficient vacuum plate lifters. In general all vacuum plate and slab lifters are fitted with spring loaded suction pads.

Vacuum lifters for plates and slabs can be powered by an electric supply if availible. If not, Vlentec reliable diesel powered vacuum pump can be installed in the unit making it a self-contained vacuum lifter. It is possible to power lifters with a battery-power-pack.


GF 3411
1002793

"Leading the way in vacuum lifting equipment"

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