



Tube lifter

Lifting-technology



pave smart.
not hard.

Tube lifter

Lifting-technology

Optimal for professionals!

For the really heavy cases ...

Vacu-Pallet-Mobil

„Nothing is too difficult for the engineer“... that’s what our tinkerers thought and that’s how we came up with our ingenious system for lifting and laying the heaviest stones and slabs as easy as child’s play - as if by magic!

The integrated vacuum tube lifting technology enables the setting of heavy concrete and natural stone elements (e.g. curbs and gutters, concrete and natural stone slabs, paving stones, wall stones ... etc.)

The **Optimas Vacu-Pallet-Mobil** even takes care of pallet transport (1,600 kg).

With the material in place, you can get started: with floating ease, meticulous and extremely economical. This combination of transport and laying technology guarantees optimal logistics and thus effective work. On top of that, this is the best health care for your employees.

Due to its compact design, this device can be transported on a car trailer.

Main purpose of use

Road construction - for installing curbs and gutters.



Operation videos on www.optimas.de



Optionally available:

Comfort package

consisting of remote control and automatic mast alignment.

The following functions can be controlled via the remote control:

- Drive left/right
- Forward drive on both sides
- Vacuum pump on/off
- Pallet fork lift/lower
- Mast alignment on/off



Transport pallet

With the transport pallet, we guarantee easy loading and fast transport.



Advantages of the Vacu-Pallet-Mobil

- Transport of pallets up to 1.32 m wide.
- Compact design and low weight ensure easy transport.
- The chassis with two rubber tracks makes the device easy to manoeuvre even on difficult terrain.
- The mast can be hydraulically balanced in a flash.

Optional: automatic mast alignment

- **Standard with Duo system:** Vacuum pump unit can be easily removed and used independently as a vacuum magnet. Simply mount it in the vacuum magnet frame (optional) and lift weights of up to 1,000 kg.

Vacu-Pallet-Mobil E

Whisper-quiet and emission-free on request: the environmentally friendly, battery-powered version operates almost silently throughout the day and can be conveniently charged overnight using a standard 230-volt power socket.



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Optimal for
savers!

Suction power for all loaders!

Vacu-Lift

You have a wheel loader and need to lift and install heavy slabs? Perfect, then all you need is the **Optimas Vacu-Lift** to make your employees life easier!

The attachment is suitable for all loader types with fork carrier plate and forks and is the affordable alternative to the Vacu-Pallet-Mobil.

In cooperation with the wheel loader, the Vacu-Lift not only takes care of pallet transportation - with the tube lifting technology, material installation becomes a profitable business. Because vacuum is not nothing, even if working with this system feels like it.

Paving stones, sidewalk slabs, large elements made of concrete or natu-



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ral stone - with the Optimas Vacu-Lift, many things can be moved from A to B and also installed directly there.

Main purpose of use

Road construction - for installing curbs and gutters.

Advantages of the Vacu-Lift

- Optionally available with hydraulic drive, petrol or diesel engine.
- Suitable for all types of loaders with fork carrier plates and fork tines.
- Transport of pallets
- **Standard with DUO system (only for Vacu-Lift H and Vacu-Lift H Mini):** Vacuum pump unit can be easily removed and used independently as a vacuum magnet. Simply mount it in the vacuum magnet frame (optional) and lift weights of up to 1,000 kg.

Vacu-Lift H Mini

Features of the Vacu-Lift H Mini

- Passage width: 882 mm
- Carrier equipment: excavators, mini loaders, telescopic loaders, compact loaders

Main purpose of use

Ideal for small construction sites.

Landscaping sector: paving (up to 12 paving stones per work cycle) and laying concrete and natural stone slabs.



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Optimal for landscapers!

Completely weightless ...

Vacu-Mobil-Allrounder

„The earth’s gravity has been overcome.“

The **Optimas Vacu-Mobil-Allrounder** is the perfect partner for smaller construction sites and garden landscape construction.

Our Allrounder copes with rough terrain and cramped sites with ease.

Take off with the integrated technology: Curbs, concrete slabs, natural stone slabs, paving stones, large pavers, gutter slabs, wall stones ...

The material to be processed is laid completely weightlessly with the vacuum tube lifter. This almost ensures workflows at the speed of light and takes the strain off your employees’ backs. Gardeners and



landscapers in particular appreciate the compact design.

With this colleague at their side, your employees will set new records.

The Optimas Vacu-Mobil Allrounder can be easily transported by car on a trailer to the next job.



Operation videos on www.optimas.de



Main purpose of use

Ideal for confined construction sites in the garden and landscaping sector. For installing up to 12 paving stones per operation and placing concrete and natural stone slabs and elements.

Advantages of the Vacu-Mobil-Allrounder

- The undercarriage with rubber tracks allows the unit to be manoeuvred easily in rough terrain.
- Due to the compact design (width 920 mm) no passage is too narrow.
- Due to the 4 hydraulically controllable support feet, the device can be easily balanced and offers a safe stand.

Optionally available:

Protective shoes for support legs
(30 x 30 cm)



Tile support frame

For coating large-format tiles, we recommend the foldable vacuum suction plate and the tile support frame.

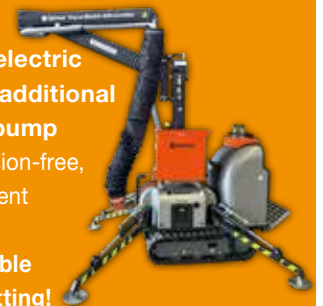


230-volt electric motor & additional vacuum pump

– for emission-free, virtually silent operation.

Also suitable for retrofitting!

The Orange Box can be easily integrated into existing systems.



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Suction almost noiseless ...

Vacu-Mobil E

You won't believe your eyes and ears: whirring quietly, the electrically powered **Optimas Vacu-Mobil E** lifts heavy-weight stones and slabs and deposits them elegantly where you want them.

The low-noise vacuum generation with electric motor makes the device particularly suitable for locations where the lowest possible noise emissions are required, such as in pedestrian zones. Increasingly, e-mobility is also becoming a criterion in municipal tenders. With the Optimas Vacu-Mobil E, you'll be well ahead of the game when it comes to awarding your next contract.

The Vacu-Mobile E takes over the precise and economical installation of one concrete element after the other as quiet as a whisper and as light as a feather, while protecting the joints and hearing of your employees.



Main purpose of use
Pedestrian zone and
Residential areas

Quickly stowed on the car trailer, the Vacu-Mobile E doesn't make much fuss during transport either.



Operation videos on
www.optimas.de



Advantages of the Vacu-Mobil E

- Very quiet due to electric motor
- The four hydraulically controlled support legs make it easy to balance the device and ensure that it stands securely.

Versions

The Vacu-Mobil E is available in two different versions:

- VM 150E
- VM 80E

Optionally available:

Protective shoes for support legs
(30 x 30 cm)



Lifting hose transport frame
for transporting and storing dismantled lift hoses

Vacuum tube lifter

Programme

On construction sites worldwide since 2009

General advantages

- Weightless, accurate, economical installing of curbs, concrete slabs, natural stone slabs, large pavers, gutter slabs, wall stones, concrete pavers, etc.
 - Paving of up to 12 stones in one go.
 - Very robust and dirt-resistant control unit (maintenance-free).
 - The foldable boom arm allows smooth laying on confined construction sites, e.g. along house walls or rows of trees.
 - The boom can be folded very easily by one person in just a few minutes.
- Almost no set-up time is required, resulting in a very compact unit for transport and storage.
- The suction pads can be replaced very quickly and conveniently thanks to a simple quick-change system.

Convincing arguments

- **Versatility!**
Regardless of type, size, weight - a huge variety of stones, slabs, curbs, elements can easily be handled. Ideal for many industries, such as road construction and civil engineering, gardening and landscaping, paving and many more.
- **Simple operation!**
After 5 minutes of training on the device your employee is already in top form.
- **Fast amortization!**
With e.g. 60 meter curbs per hour, the value of the machines is quickly paid off. No matter what material is to be laid, cycle times of less than one minute are no problem.
- **Healthy work!**
Fewer days of absence due to less physical exertion.
- **Motivated employees!**
Your team will enjoy lifting weights with ease and really getting things done.
- **Modern technology = Attractive employer!**

Health and safety bonus on curb stone installation equipment!

In many countries, there are significant public investment subsidies from health insurance companies or associations for the use of back-friendly equipment.

Technical Data

	Vacu-Pallet-Mobil	Vacu-Lift
Outrigger arm load capacity:	150 kg (optional up to 250 kg on request)	150 kg (optional up to 250 kg on request)
Length of outrigger arm:	3,000 mm	3,500 mm
Working radius:	3,000 mm	7,000 mm
Swivel range:	360°	360°
Dead weight:	1,300 kg	H = 400 kg / P = 430 kg / D = 510 kg depending on drive
Drive:	Diesel engine: noise-reduced Hatz Silent Pack, 1 cyl, 13 HP, 9.6 kW with electric starter and hour meter alternatively	Typ „H“ – hydraulic drive Typ „P“ – gasoline engine: Honda GX 270, 6 kW, 8 HP, with electric starter Typ „D“ – diesel engine: Yanmar, 4,4 kW, 5,9 hp, with electric starter
Optional:	automatic mast alignment + remote control	–
Transport dimension:	L = 2,260 x W = 1,850 x H = 2,100 mm	L = 2,230 x W = 1,330 x H = 2,100 mm

Vacuum tube lifter

Accessories

Paving and slab laying

Tile support frame

If large-format tiles or ceramic slabs need to be coated with adhesive before laying, we recommend using our foldable **Optimas vacuum suction plate** in combination with the **Optimas tile support frame**. The tile support frame is fixed to a pallet, for example, and the tile/ceramic slab stands vertically on plastic supports – ideal for applying adhesive. The slab is then brought into a horizontal position using the suction plate and laid. The flexible plug-in system allows formats from 400 × 400 mm to 1,000 × 1,000 mm to be stored – always securely on just two support points.



Joint spacing aid

Precise laying of large formats with the **Optimas joint spacing aid**. Secure spacing without joint irons – easy laying by vacuum with precisely defined joints (3, 4, 6 or 8 mm, easily interchangeable). The spacing aid also serves as a stop when suctioning, ensures centred placement and saves time. Depending on the nominal thickness of the paving stone, the following joint dimensions apply:



- Nominal thickness < 120 mm – min. 3 – max. 5 mm
- Nominal thickness ≥ 120 mm – min. 5 – max. 5 mm

Lifting hose transport rack

The **Optimas transport rack** enables the safe transport and space-saving storage of lift hoses (with or without control unit) with a diameter of 160 to 300 mm – also ideal for dismantled hoses.



Ankerfix „Solo / AP“

With the **Optimas-Ankerfix Solo** clamping device (for pliers installation) or **Ankerfix AP** (for vacuum installation), anti-slip anchors are attached directly during installation – quickly, precisely and without additional effort. The anchors are fixed in place by gravity. Complies with the state of the art according to FGSV for high traffic loads.



Technical Data

	Vacu-Mobil-Allrounder	Vacu-Mobil E
Outrigger arm load capacity:	150 kg (optional up to 250 kg on request)	VM 150E: 150 kg (shortened to 250 kg on request) / VM 80E: 80 kg
Length of outrigger arm:	3,000 mm	3,000 mm
Working radius:	6,000 mm	6,000 mm
Swivel range:	360°	360°
Dead weight:	900 kg	740 kg
Drive:	Gasoline engine: Vanguard 400; 14 hp, 10.4 kW	Electric motor Hydraulic pump: VM 150E: 3 phases 400 Volt, 0.37 kW, 210 bar max. / VM 80E: 1 phase 230 Volt, 0.55 kW, 210 bar max. Vacuum pump: VM 150E: 3 phases 400 Volt, 2.2 kW, 0.65 bar max. vacuum pressure / VM 80E: 1 phase 230 Volt, 2.2 kW, 0.65 bar max. vacuum pressure
Optional:	230-volt electric motor and auxiliary vacuum pump, load capacity 70 kg	–
Transport dimension:	L = 2,800 x W = 1,050 (790) x H = 2,100 mm	L = 2,473 x W = 877 x H = 1,995 mm





Vacuum tube lifter

Selection of suction plates

For any application
the right solution

Traverse

Art.-No.	
54756	Multi-suction pad traverse without suction pads

Suction pads (for traverse)

Art.-No.	
54774	Suction pad Ø 150 mm for multi-suction pad traverse
54784	Suction pad Ø 200 mm for multi-suction pad traverse
54775	Suction pad Ø 280 mm for multi-suction pad traverse
55290	Suction pad 200 x 200 mm for multi-suction pad traverse
55272	Suction pad 280 x 150 mm for multi-suction pad traverse
55229	Suction pad 280 x 180 mm for multi-suction pad traverse

Sample views



Suction pad round

Art.-No.	
52232	Suction pad Ø 200 mm
106128	Suction pad Ø 390 mm
52308	Suction pad Ø 420 mm
52518	Suction pad Ø 500 mm



Suction pad quadratic

Art.-No.	
52378	Suction pad 290 x 290 mm
52243	Suction pad 370 x 370 mm



Suction pad rectangular

Art.-No.	
53457	Suction pad 300 x 200 mm
53540	Suction pad 390 x 240 mm
55216	Suction pad 460 x 220 mm
53519	Suction pad 480 x 240 mm
52303	Suction pad 500 x 150 mm
52348	Suction pad 500 x 250 mm
52326	Suction pad 500 x 300 mm
52294	Suction pad 550 x 350 mm
105569	Suction pad 850 x 150 mm
54074	Suction pad 900 x 100 mm



Possibilities „almost“ unlimited

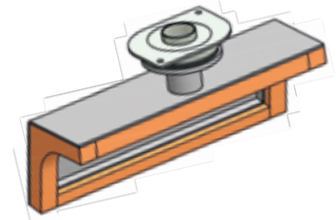
Please tell us your desired application and we will clarify the technical details and possibilities. Special designs can usually be realized quickly after knowing the technical requirements.



Suction pad for curbs

Art.-No.	
52198	Suction pad high kerbs (900 mm)
52178	Suction pad high kerbs (450 mm)
53945	Suction pad low kerbs (900 mm)
54059	Suction pad low kerbs (450 mm)
52241	Suction pad round kerbs R2–R5 (900 mm)
52205	Suction pad round kerbs R2–R5 (450 mm)
52179	Suction pad round kerbs R5–R9 (900 mm)
51984	Suction pad flat kerbs F10 (900 mm)
52262	Suction pad flat kerbs F15 (900 mm)

Sample views



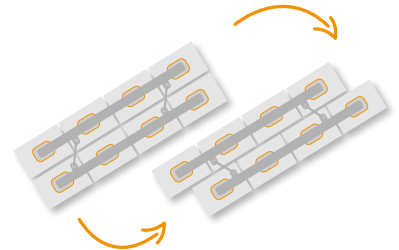
Suction pad separable (for installing gutter stones with the desired distance)

Art.-No.	
55174	Suction pad separable for 5/7 gutter stones (160 x 160 mm = 7 stones 160 x 240 mm = 5 stones)



Suction pad movable (lift 2 rows of stones and move them into 1/2 or 1/3 bond)

Art.-No.	
55362	Suction pad for 12 stones 200 x 100 mm (2 rows of 6 each) move in 1/2 bond
55361	Suction pad for 12 stones 200 x 200 mm (2 rows of 6 each) move in 1/2 bond
55330	Suction pad for 8 stones 300 x 150 mm (2 rows of 4 each) move in 1/2 bond
55363	Suction pad for 8 stones 300 x 200 mm (2 rows of 4 each) move in 1/3 or 1/2 bond



Suction pad tiltable (lift concrete slabs vertically and install them horizontally)

Art.-No.	
105625	Suction pad Ø 390 mm with tilting mechanism for concrete slabs 500 x 500 mm
113626	Foldable suction plate with centre of gravity adjustment for tiles and ceramic slabs



Suction pad for troughs stone & L-stone - on request

Other

Art.-No.	
53561	Holder including quick coupler for mechanical clamps
53750	Mechanical clamp including quick coupler for grass pavers
119191	Tile support frame for hinged suction plate with centre of gravity adjustment

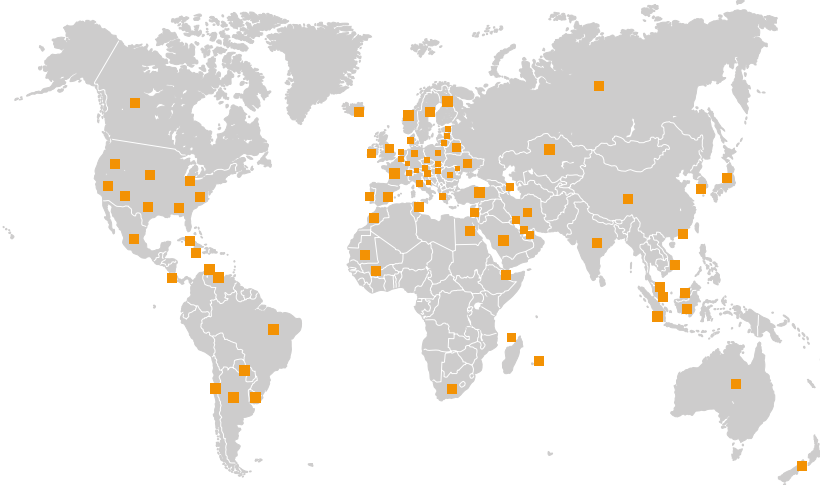


Lifting tube

As standard, we use lifting tubes with a diameter of 230 mm. This is the ideal diameter for installing curbs. Almost each Lifting tube diameter is available. Which diameter is best suited for your application must be clarified during consultation.

Pioneering technology through visionary engineering since 1978.

Optimas worldwide



Would you like to experience Optimas technology live?

Come and check out our **Optimas World in Saterland** or visit our **Optimas Demo-Jobsite near Frankfurt airport at the Coreum in Stockstadt a. R.**

Experience our latest innovations, test work processes and test the system as much as you like.



Optimas World Saterland



Optimas Demo-Jobsite near Frankfurt airport at the Coreum in Stockstadt a. R.

Represented by



Contact us!



Paving Specialist

Optimas Maschinenfabrik · H. Kleinemas GmbH
Industriestraße 12 · 26683 Saterland-Ramsloh

Tel.: +49 4498 9242-0

Fax: +49 4498 9242-42

info@optimas.de · www.pavingspecialist.com

Visit us at



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optimas.de