

YOUR TRANSPORT AND LIFTING SPECIALIST

	<p>Overhead solutions up to 2,500 kg capacity</p> <p>Assembly lifts up to 7.9 m lift height</p> <p>Glass assembly devices up to 1,400 kg capacity</p>	<p>OVERHEAD ASSEMBLY</p>
	<p>Vacuum suction systems up to 18,000 kg capacity</p> <p>For curved and coated panes, glass fins, stone slabs, for wall and roof panels, for glazing under protrusions, for sub-zero temperatures and behind scaffolding</p>	<p>VACUUM SUCTION SYSTEMS</p>
	<p>Glass transport wagons up to 1,000 kg pane weight for panes up to 3.2 x 6 m and 110 mm thickness</p>	<p>GLASS TRANSPORT WAGONS</p>
	<p>Mini cranes up to 10 tonnes capacity</p>	<p>ASSEMBLY CRANES</p>
	<p>Industrial cranes Pick & Carry-Cranes up to 100 tonnes capacity</p>	<p>INDUSTRIAL CRANES</p>
	<p>All terrain telescopic loaders Lifting Platforms Chain Lifts Helm rails Stair climbers</p>	<p>AUXILIARY EQUIPMENT</p>

**RENTAL AND SALES
WORLDWIDE**

From an idea to global player

The history of the transport and lifting specialist started in 2006 – with a brilliant idea and only two employees. Today, more than 10 years later, Heavydrive GmbH is one of the world's leading companies for glass assembly equipment.



„We are very proud to have successfully established ourselves on the highly competitive market over the last few years and we look to the future with new innovative assembly solutions,“ says managing director Guenter Uebelacker.

In 2005, mechanical engineer Guenter Uebelacker found a market niche in glass assembly. Existing mini crawler cranes on the transport and lifting market were able to lift and position loads. What they could not do, however, was drive under load. He developed a lightweight and stable transport device, which thanks to its clever construction guarantees stability by the transported goods themselves. The HDL product series was born and shortly thereafter registered at the German patent office. The demand was huge: with the new HDL series, the company became the global market leader within just a few years.

From Swabia across the world

In 2007, the first large-scale international project followed: glazing the façades of seven high-rise buildings in London City. Among other things, Heavydrive was responsible for the complicated structural calculations.



The reliable single-source service Heavydrive provides is also much in demand on the Arabian Peninsula. For the construction of the second highest building in the world at the time, the Royal Clock Tower in Mecca, Saudi Arabia, the company developed seven different MRK cranes with glass assembly equipment.

Thanks to its customised assembly and transport solutions for any construction site, Heavydrive is well established in the industry.

Visions for the future

With more than 30 employees now, Heavydrive continues to expand. Local subsidiaries, for example in Switzerland, the USA, Dubai and Russia, create even more customer proximity.

Managing director Guenter Uebelacker has a clear vision:

„Whenever I reach out to the world, I always do so with a view to the future. I do things nobody else has ever done before me. And we never lose sight of the goal: to be better than the market expects us to be.“

To achieve this, Heavydrive keeps on developing and planning new and innovative solutions for a vast range of construction projects and situations worldwide.

Visit our website:

www.heavydrive.com

Heavydrive®.com

Your Transport and Lifting Specialist



Heavydrive® has gained a foothold in this sector thanks to its customised glass mounting and transport solutions for any construction site situation.

Our rental fleet includes different **MRK mini cranes** by manufacturers Maeda and Unic, various **vacuum suction systems (VSG)** with a load of up to 12,000 kg with counterweights up to 18,000 kg capacity, **glass fitting equipment (GMG)**, **motor chain hoists (MKZ)**, **glass transport wagons (HDL)** as well as **assembly cranes (ML)** up to 7.9 m. The company also rents out **all-terrain telescopic loaders (GTS)** and **lifting platforms (GTB and SB)**.

At its headquarters, the company offers **professional servicing and repairs** on machinery and has **its own cleaning facilities** for both small- and large-scale equipment. Here, **trained staff carry out maintenance and repairs** on company-owned and external equipment and guarantee 100% machine operation. A **dedicated testing area** enables employees to check the equipment's vacuum power and adjust the vacuum suction systems for each construction site situation accordingly.

The company's central location in Tapfheim ensures **quick and reliable delivery**.



The equipment is stored in **two well-organised warehouses** and is **"on-call" at all times**. It can be shipped to Frankfurt and Cologne within 3 and 5 hours, respectively. For small equipment, Heavydrive even offers **worldwide overnight delivery**, including **all customs and transport documents**.

Our **well thought-out assembly concept** consists of individual components that can be put together individually **according to the conditions and requirements of your construction site**. We use **internationally valid standards** so that you can combine and complement your own equipment with Heavydrive® technology as well as possible.

From smaller, manually-operated individual systems to concepts involving tonnes of bearing load, you will always find the perfect solution at Heavydrive®.

Don't hesitate to contact us - we look forward to your inquiry!

www.heavydrive.com • sales@heavydrive.com

Heavydrive® offers mounting concepts that are **tailored exactly to your needs**. Our **overhead manipulators**, for example, can be **attached to any device or crane with the right adaptor**.

This allows you to **use your own machinery and rent any additional components** you might need. It offers flexibility and saves time and money.



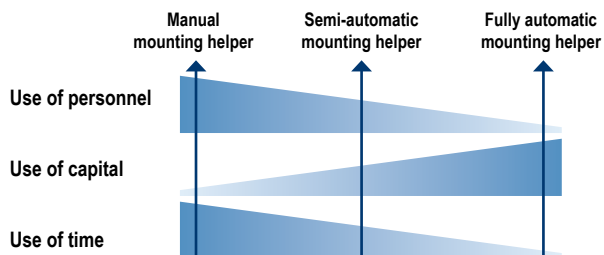
Intelligent and economic working methods

Show off your expertise to customers by always having the right equipment for your needs. Consider our rental options.

Benefits for you:

- Save money by saving time
- Optimal working conditions and the right equipment ensure fewer staff shortages

The following parameters are key for planning:



Don't hesitate to contact us – we're happy to help!

WhatsApp Service: +49 171 340 74 06

Your one-stop shop for mounting concepts
Combine these components
according to your needs:

Manual: ML Assembly Lift

For product details,
see from page 48

Semi-automatic: GMG

For product details,
see from page 58

Fully automatic: MRK Assembly Cranes

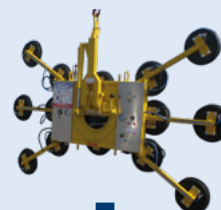
For product details,
see from page 266

For an overview,
see from page 356



VSGU Overhead Manipulators

For product details, see from page 82



VSG Vacuum Suction Systems

For product details,
see from page 92

For an overview, see page 354



HDL Glass Transport Wagons

For product details,
see from page 224,

For an overview, see page 353

In many cases, purchasing equipment simply makes no sense, for example:

- You need the equipment **only once, infrequently or for a limited period.**
- Your own machine on site has broken down and you need **a short-term replacement.**
- You need the device/machine **ASAP and can't wait** for a new model to be delivered.
- You would **like to test the device first**, before you buy.



Heavydrive offers tailor-made solutions and sound advice.

24 hour delivery
across Europe:
rent or purchase

What happens when I RENT?

- We **deliver the devices directly to your construction site** in the morning and collect them afterwards.
- This means you can **use the device for a full eight hours** without encountering any operational difficulties on site. We use exact addresses and fixed times to guarantee **that things go smoothly for both parties.**
- We rent out **devices and operating personnel** all over Germany and **the rest of the world.**
- Get in touch to find out more.

Sometimes purchasing makes more sense than renting, for example:

- The purchase **price is so low.**
- You need the equipment **too often to rent it continuously** or, even with the Heavydrive® 24-hour delivery service, you often need it **at short notice.**
- You have already rented the equipment and as **your firm has constant use for it** you have decided to buy a new device.
- You would like to buy a **used Heavydrive® device.**
- You would like to buy a device **specially developed by Heavydrive®** that **meets your particular needs**, or a specially extended device or machine.

Always in stock!

Why rent from Heavydrive®?

- If you can't find an appropriate device, **Heavydrive® will offer special self-built solutions** and **re-design equipment** for any situation.
- You don't only need **the machine, but everything with it**, including an experienced operator, planning, organisation of multiple partners, etc.
- Heavydrive®'s equipment and/or operator **can be on your building site within 24 hours.**
- Heavydrive® does not offer one-size-fits-all or flat-rate solutions. We **cater especially to your individual needs.**
- **Heavydrive® advises and looks after its customers.**
- Heavydrive® provides you with **suggestions and starting points for your current operation**, and how it can be developed most efficiently.
- You'll receive services from Heavydrive® which **exceed normal safety requirements.**



Heavydrive® offers solutions:

- Any of our glass transport wagons and accessories can also be rented. However, many of our customers require them so often that they want one of their own. Don't hesitate to contact us – we're happy to help!
- If you have rented one or more machines in the past and would now like to **buy one new**, enquire via email, telephone or fax.
- Another alternative to renting is to **purchase used machines or equipment.** Please enquire via email or alternatively by telephone or fax.
- We offer many **unique self-developed solutions**, such as **crane extension tips** and **overhead glazing units.** If you are interested in one of these **individually modified machines or devices** then enquire by e-mail, telephone or fax!

www.heavydrive.com • sales@heavydrive.com

Have you seen our new App?

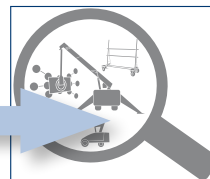


It's a fast, convenient and easy way to contact us or access our website at any time, even when you're on the move.

Advantages of the App at a glance

- Navigate our website quickly
- Access the digital copy of the Heavydrive catalogue with over 300 pages at any time
- Use the Heavydrive device finder in just one click
- Display relevant products using the device finder instead of wasting time browsing the catalogue
- Contact us more quickly
- Create watchlists and query lists specific to your construction site or project
- Save watchlists and query lists to your account
- It's even easier to send us photos or videos of your issue via WhatsApp
- And many more

In the App you have direct access in one click to:



Heavydrive® device finder
(see page 10)

Heavydrive® WhatsApp
Service (see page 11)



Heavydrive® website
containing all devices and information

The Heavydrive isApp a 'progressive web application' (PWA).
Install and **use it on your smartphone like any other app.**

The web app works like a native app, but it isn't downloaded from an App Store (Apple or Android) and there are no annoying updates (**so it's virus-free!**).

How to do it:

Open this URL on your smartphone:

<https://heavydrive-en.app>

The app opens in your browser.

If you like it, you just have to
„add to the home screen“ .



Instantly you'll have the **app icon**
on your smartphone -
without installation!

You'll find a detailed step-by-step guide to setting up
the app on our website

at app.heavydrive.com

Heavydrive Device Finder

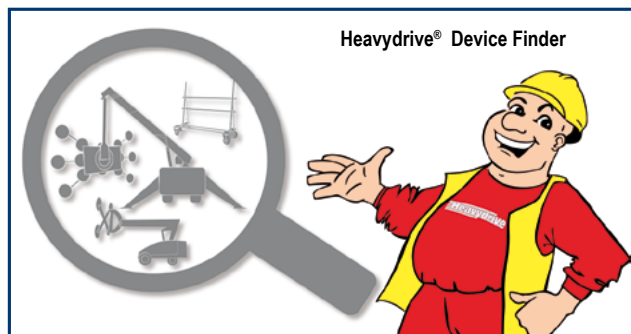
Do you need help choosing a glass mounting aid device for your construction site? Just enter a few details about the construction site conditions and the size and weight of the object that needs lifting:

Our new device finder will help you in your search!

We specifically developed the device finder as a quick and easy tool to help you figure out the best device for your project's construction site conditions.

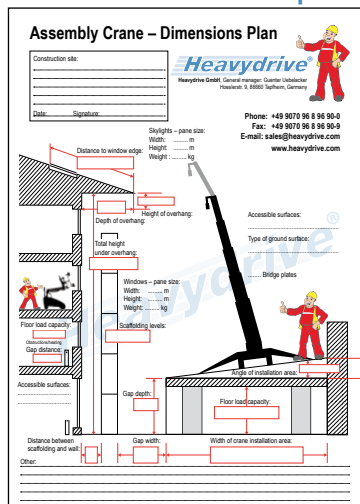
With just a few clicks, you can create a customised list of the tools you need.

The products are linked to the corresponding product pages, where you can find all the relevant information. It's easy to use, so even inexperienced users can navigate it easily.



Use our device finder: devicefinder.heavydrive.com

Dimension Plan for Enquiries



At sketch.heavydrive.com, you will find a PDF form to download and fill out online as a dimensions template.

This way, you can describe your situation to us in as much detail as possible and return it by fax/e-mail/post.

Heavydrive® WhatsApp Service

Fast - Competent - Free

Does this situation sound familiar? You're on the building site and suddenly everything stops:

- A device is damaged and **needs spare parts**
- You need **assistance with device operations**
- **Special equipment is necessary** due to an unexpected mounting situation. You'll need a solution.

No problem, we're here to help!



Via WhatsApp: +49 171 3407406

We are at your service:

- For enquiries and offers
- In difficult building site situations
- For repairs and spare parts
- Answering questions about device operations
- And much more!

How it works:

Do you have a question, need a quick quotation or want to consult our experts?

Just send a WhatsApp message, with an image of the situation if appropriate.

That way we can immediately look into your enquiry and help you on the spot. Use the Heavydrive WhatsApp Service! We reply as soon as possible during business hours. Double check the exact times in our WhatsApp status.

The best part is that it's totally free - worldwide!

Simply save us as a contact in your address book.

Reparation Glazing / Service



Stone façade, Grenoble

In partnership with various assembly firms, we supply specialists and appropriate assembly personnel for:

- Rope straining
- Point holding systems
- Post-shelf constructions
- Heavy steel constructions
- Foundations
- Floating façades
- Heavy glazing up to 4 t
- Flat glazing



**Heavydrive® -
Services:
We have the specialists
for your projects**

Luxembourg Airport



Accident prevention regulation testing



We perform accident prevention regulation testing regularly and before every dispatch. We take personal responsibility for ensuring that every system that leaves our premises is thoroughly checked. On request we issue a certificate for every delivery.

We are happy to help with **regularly renewing the accident prevention regulation certificate** for any equipment you have purchased from us.

We'll also throw a special service into the bargain: **regular accident prevention regulation testing of your devices**. Mini crawler cranes and suction systems are professionally checked according to strict accident prevention regulation guidelines and are repaired quickly and reliably as needed.

Heavydrive® is the service point for mini crawler cranes for the manufacturers Maeda, Unic and Jekko (service with accident prevention regulation)

Crane training in theory and practice



When you rent or purchase our assembly cranes, you can also book crane training with us – the courses are **flexible, tailored to your existing knowledge and practically oriented**.

Many professional associations offer crane certificates, but most lack the practical aspect. The Heavydrive crane certificate offers everything in one place. Theory alone is not enough.

Our crane expert holds training courses in theory and practice at the headquarters in Tapfheim. The wide range of Heavydrive cranes, assembly devices and suction systems offers diverse opportunities for plenty of experience with the devices.

Why do I need a Crane Operator Certification?



For years, customers have required a crane certificate on construction sites, mainly for liability reasons.

A cautious crane operator with certification and experience causes less collateral damage than an operator with little instruction and no experience.

In addition, experience saves time and money in the long run.

Professional associations also require crane operators to have training (§ 29 German Trade Association D6).

The duration of the course depends on the knowledge of the participants and the necessary training time. For beginner level customers, the course normally lasts five working days. To receive a crane certificate, at the end of the course participants have to demonstrate their learning in a test. If they pass, the participants receive a certificate and a reference manual.

For further information, individual enquiries or to book a place on a course, our employees are available by phone on +49 9070 968 96 900 or by email at sales@heavydrive.com.

Your practical partner for practical solutions



We develop your required equipment and undertake the organisation and development of your projects worldwide.



Developer and Manufacturer

By renting our equipment we can continually improve it and constantly develop new customer-friendly building site solutions.

- Glass transport wagons
- Crane tips
- Overhead manipulators
- ...and much more.

We handle all the planning for you, from static analysis to final inspection.

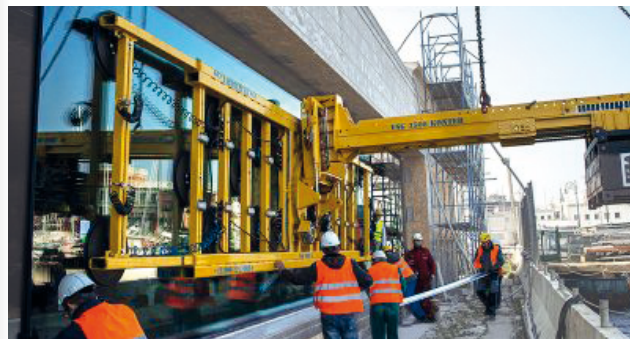
Thanks to our know-how of machine and system building, we react reliably and competently to customer needs.



We are happy to operate for you both at home and abroad

- Complete planning and realisation of concepts.
- Static-dynamic FEM calculations.
- Development, production, complete assembly.
- Delivery and final inspection on the building site.

Enquire today!



9.6 m pane, Trieste harbour, Italy

Unlimited creativity in planning and construction with Heavydrive!

Architects, planners, project developers, estimators, and investors, get ready!



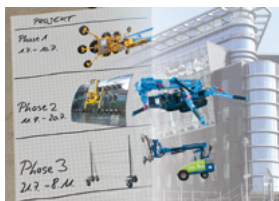
15 m pane, 5-star hotel in Rovinj, Croatia

Modern architecture relies heavily on glass as a building material. There are trends for futuristic design and large glass constructions. The sector is faced with more and more challenges: structural elements are becoming larger and heavier, mounting is becoming more complicated and the logistics more complex.

Glass mounting solutions tailor-made to your project

Are you planning an extraordinary project? Get the Heavydrive specialists on board during planning!

Start planning and project managing the equipment you will need for every construction phase from the outset. We can then quickly put together a package that will save you time and money!



You won't have to deal with unwanted surprises that could increase the cost of the project. There is no limit to how creative you can be!

Even from the design and planning phase of a project, it makes sense to think about implementation. This is becoming more and more important in the contracting phase.

We offer everything from planning to implementation, your one-stop shop.

We help you create your **assembly flow plan (method statement)** and assist you with **formulating the worst-case scenario** using optimal solutions, e.g. replacing existing glass panes.

With Heavydrive's expertise and special equipment, you will open up many design possibilities that would have been unthinkable in the past!

No emissions thanks to innovative technology



Heavydrive GmbH has a variety of **emission-free systems, cranes and lifts** for indoor assembly projects, so panes **can be transported and installed indoors, even in winter**. The systems are also **extremely small and easy to handle** so they can even be used in tight spaces.

For example: the **flexible GMG glass assembly device**. This compact mounting aid transports and installs **panes weighing up to 1,000 kg**. The GMG devices have a **24 V electrical motor**. Fully charged, **the battery lasts three to four days on a single charge**.



The **assembly cranes in the MRK range** have a **lifting capacity of up to 10 tonnes** and are **easy to use indoors**.

The **MRK 126 hybrid mini crawler crane**, for example, has a **3-cylinder motor** with a **water cooling system**. The crane has a **40 litre tank** and can either be operated using the **diesel motor** or **electronically at 15.2 KW or 2,500 rpm**.

Since it was founded over ten years ago, the company has focused on innovative technologies like devices with electronic, battery or hybrid operation and therefore guarantees safe and emission-free operating conditions.



Heavydrive® logistics:

- Fast
- Straightforward
- Transparent
- Highest quality



Heavydrive® Logistics and Workflow

1. **Your request is received**
via e-mail, fax or telephone
2. **The offer is prepared**
(usually within 1-2 days)
3. **Order** (your order)
4. **Order confirmation, your countersigning and payment processing**
5. **The equipment is loaded**
onto a double palette and the packaging sealed **per IPPC Standards**
6. **Pre-custom payment for the goods** is made at the local customs office before delivery to the airport
7. **Arrival at the destination airport**
8. **Transfer to a truck** at the destination airport
9. **Transport to the construction site**
10. **Use of the system**



Example: Urgent operation in record time

It's every builder's nightmare. Shortly before the completion of a new mega store in the famous Dubai Mall, the huge glass pane in the entrance door broke. Within one week, Tapfheim-based company Heavydrive GmbH managed to replace the curved glass element using its expert team and equipment.

Tuesday:

Heavydrive was notified by mail and reacted immediately:
In no time, Heavydrive was in the process of preparing the dangerous goods declaration and deployment plan, processing the freight and packaging requests, and applying for a working visa for the crane driver.

Wednesday:

All 3 devices suitable for air freight were packaged according to IPPC standards and customs clearance was completed.

Thursday:

The equipment was shipped from Munich to Frankfurt Fraport Airport

Friday:

The equipment was on a direct flight to Dubai

Saturday:

Import customs clearance was completed, and the equipment was on its way to the customer

Sunday:

The crane diver arrived from Heavydrive; the equipment was unpacked and the sliding door was pre-assembled

Monday:

The shipped equipment was delivered to the construction site

Tuesday:

The glass panes in the shopping mall were replaced

Heavydrive on site at the Eiffel Tower

The first floor of the world-famous Eiffel Tower has been given a facelift.

Fitting the new façade, however, proved to be a very tricky task indeed. The panes were curved like waves and needed to be installed under eaves. Heavydrive used the compact and powerful **assembly crane MRK 86.0**, which is also suitable for use indoors. In combination with the **overhead manipulator VSGU 450K** and the **vacuum suction system VSG PLR**, which was specially developed for long curved panes, the crane operator can install large, curved panes anywhere.



Eiffel Tower, Paris, France

A **trained, experienced Heavydrive crane operator** ensures problem-free glass mounting on site. Thanks to Heavydrive's expertise and innovative technology, nothing stood in the way of completing the Eiffel Tower's new glass façade.

10 m high panes, angled and curved elements - a spectacular glass mounting project at Kö-Bogen

The unusual façade of the Libeskind buildings in Düsseldorf, Germany, presented an enormous challenge for construction experts. The façade, which extends over **15,000 square metres**, consists of **2,800 individual parts** of different sizes. The **elements made of different materials are angled and curved**. This complicated installation of 10 m high panes under **huge time pressure** pushed the structural and façade engineers to their limits.

This is why the **Heavydrive GmbH experts** were consulted early on in the **planning phase**.

Thanks to their **great experience and broad range of vacuum suction systems**, the company was able to establish a testing facility in no time at their main plant.



Kö-Bogen, Düsseldorf, Germany

Since Heavydrive always has **more than 40 suction systems from 300 to 5,000 kg available for hire**, the experts were able to start very quickly.

The **Kö-Bogen façade elements** are up to **2.5 metres by 8 metres** in size and are **concave and convex** in shape. They are made of **glass and natural sandstone** and weigh between **500 and 1,200 kg**.

The smart lifting technology from Heavydrive proved its worth in this complicated installation.

Excellent architecture calls for a professional assembly team



Exhibition hall, Nuremberg, Germany

The **8,000-square-metre exhibition hall** comprising **3,290 tonnes of steel** and **2,750 square metres of glass** was completed in **just 18 months**.

The installation of the curved convex and concave panes at often dizzying heights was not possible using conventional building cranes.

This is where Heavydrive came in with its innovative specialised equipment:

The different **assembly cranes MRK 126.0, 158.0 and 195.0** and the **overhead manipulator VSGU 1200 K** were developed for extreme construction jobs and **can transport any pane – no matter what the weight or shape – to its destination**. With this equipment, our professional crane operators can even install the large, wave-like curved panes under eaves or overhangs with no problem.

Heavydrive devices are wind and weather resistant

In Trieste, the company installed panes weighing four tonnes under extreme conditions.



In Piazza Venezia, a spectacular construction project with a sensational view of the harbour was created.

One four-tonne pane and two 2-tonne panes were installed directly on the sea side of the building.

The challenges: The façade was offset into the building by **800 mm** with a surrounding

gap of just **10 mm**. The façade is right next to the sea. With no possibility of storing the panes in the port, they had to be transported over a distance of **40 metres**. Gusts of wind grew stronger and stronger, eventually leading to a storm.

To install the three extremely heavy panes under these difficult conditions, Heavydrive used its **vacuum suction unit VSG 6000 K** with quick-change system (SWS) with a capacity of **up to seven tonnes** when used with the counterweight traverse. The unit installs **panes of up to 18 metres in length and 3.4 metres in height**. With the counterweight traverse, the suction unit can safely go horizontally into any recess or under any building's eaves up to **2.5 metres**.

At first, the largest of the three **panes weighing almost 4 tonnes** was installed. Via remote, the Heavydrive technician steered the pane above the sea directly to the façade. The system inserted the **9.6-metre long and 3.2-metre high pane exactly to the millimetre under the eave**.

To install the two smaller **2.5 tonne panes**, a smaller suction system was used.

Lakhta Center, St. Petersburg

Flexible and lightweight, high load capacity for curved glass panes, suitable for temperatures as low as -20°C - Heavydrive® mounting solutions can meet the most extreme demands!



The Lakhta Tower in St. Petersburg (Russia) is one of Europe's most prestigious architectural feats, and at a height of 462 m, it will be the tallest building on the continent.

Like most futuristic constructions, it pushes **standard mounting solutions to their limits**: it's a **job for the experts**.

The façade construction company, Lindner Group KG, called in support from lifting and transportation specialists Heavydrive GmbH to plan, develop and implement the project. We became **one of the main suppliers** for the construction project.

The customer visited the Heavydrive factory site in Tapfheim to see the mounting solutions for themselves. The team carried out a field test that simulated the construction site conditions and demonstrated the system's functions with very convincing results.

From then on, the Lindner Group GmbH benefited from Heavydrive's one-stop service. **The experts organised everything between making sure the system was safely packaged to transportation and customs paperwork.**

The Challenge:

This mega project placed enormous requirements on the glass mounting equipment: it would need to be **ultra-light** and **at the same time be able to bear heavy loads**. The equipment also needed to be **remote controllable** and be able to function in **temperatures as low as -20°C** . Another challenge was that the **frame of the suction system needed to be particularly flexible and lift curved panes**.

The solution:

The development and construction of four **VSG 600 K MH** vacuum suction systems especially for the project. These systems have a **2-circuit system** with a **hydraulic pivot mechanism** and motorised swivel function. The systems' functions are remote controllable and they are suitable for use in **extreme, sub-zero temperatures**.

Heavydrive GmbH also developed **two counterweight traverses** that can be connected to the **VSG 600 K MH** with a **quick-change head**.

Technicians on site



Heavy curved glass panes in confined spaces



FlyStation, Neufahrn

Bodyflight is the most current sports trend - here you can fulfil your dream of flying. In a Flight Chamber, a wind tunnel is used to simulate the free fall experience of skydiving.

Heavydrive has installed eight state-of-the-art indoor skydiving facilities, including one on a cruise ship, at FlyStation Munich in Neufahrn and in the Jochen Schweizer Arena in Taufkirchen near Munich.



Ovation of the Seas, Meyer Werft in Papenburg

The core structure of the Flight Chambers on a cruise ship consists of 6 curved glass panes 5.5 m tall by about 1.8 m wide and weighing about 860 kg that have to be placed inside. Another challenge is the limited space available and the low ceiling load.

The special feature of these systems is that they are completely made of glass.

The problem: **The funnel-shaped glass tower consists of six large-scale composite glass panes. In the floor area, there is an arch for access.**

The substructure, made up of steel beams 5.7 m long and weighing 500 kg, had to be lifted from the inside.

mounted emission-free: Flight Chambers



FlyStation, Neufahrn

The challenge: Heavy curved glass panes

This is where the experienced glass assembly specialists at Heavydrive® provide the perfect solution.

Emission-free, and therefore suitable for indoor use, assembly cranes, such as the MRK 86 and the MRK 144, were used. The vacuum suction systems from the VSG KR series for curved glass panes reliably placed the curved 2 x 7 m panes, even under such extremely difficult site conditions.

The assemblies were carried out by an experienced equipment operator from Heavydrive. Using a remote control, the suction system can easily pivot the glass panes vertically and horizontally.



Jochen Schweizer Arena in Munich



Ovation of the Seas, Singapore

Special mounting solutions for use at the Royal Clock Tower in Mecca

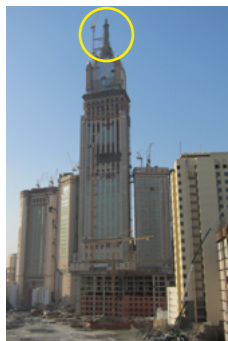
Like a giant cut diamond the core of the architectural masterpiece sparkles in the sunshine.

In this gigantic hotel project, centred around the second highest skyscraper in the world and based on the Big Ben clock tower, **Heavydrive® was deployed to work on the approx. 602 m Mecca Royal Clock Tower.**



Overhead view of the construction site:
Mecca at night

Where many others reach their limit, the transport and lifting specialist rises to the challenge.



About **400 triangular and trapezium-shaped panes** of various sizes must be assembled on the façade of the Mecca Tower in the form of a cut diamond, at vertigo-inducing heights.

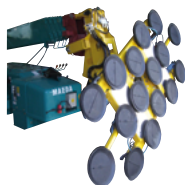
A tricky assignment which allowed the **Heavydrive® expert technicians** to put their planning skills to the test.

Mini cranes with vacuum suction systems for overhead mounting enable deployment in the most different corners of the building.

The cranes, with **special overhead manipulators**, are designed to lift **extremely heavy glass panes** even at dizzying heights.

For example, a **3-axis manipulator in the form of a cage**, which is adapted to a mobile crane, makes it possible to precisely place the **heavy 1,800-kilogram glass panes** on the outside of the building, even at a height of 560 meters.

Workers either standing or lying in a cage can optimally position the heavy and delicate load.



This is **unprecedented** in the industry. A world's first, for which Heavydrive easily received **TÜV certification**.

For the first time in history, it is possible to **precisely mount façade glass panes** on site at a height of 602 m using a remote control.

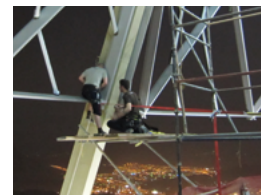
Our app: app.heavydrive.com



View from the building site on the tower over Mecca.

The Heavydrive lifting platform remains installed on the tower so that the glass façade panes can be cleaned easily.

Therefore, if it is necessary to replace a panel, this would also pose no problems.



The building site is being prepared
602 m above ground



The industrial crane MLK 72.0 with 4-axis manipulator, which set the triangular and trapezium-shaped glass panes of up to 1,800 kg.

Mounting extra-large panes in Dubai

In **Dubai (United Arab Emirates)**, Heavydrive GmbH has impressed time and time again with its equipment and know-how.

In the **Dubai Mall** – a huge shopping centre with more than 1,200 shops – a highly experienced Heavydrive device operator installed 14 m high, 3 m wide curved panes over the main entrance.

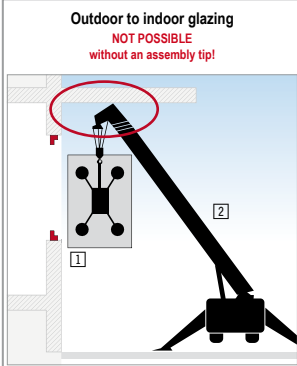
The glass panes weighed **4 tonnes** and had to be fitted under a **5.8 m overhang**.

With the **VSG 4000 KR vacuum suction system** and the **VSG 6000 counterweight traverse**, the installation took place without a glitch.

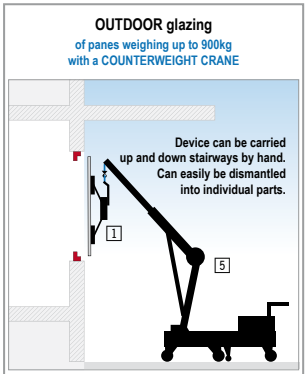
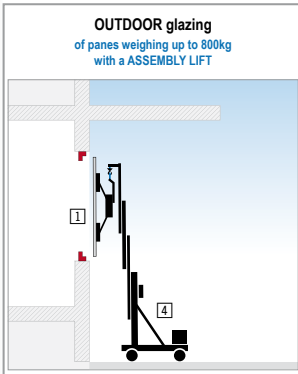
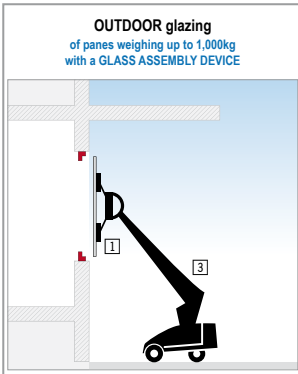
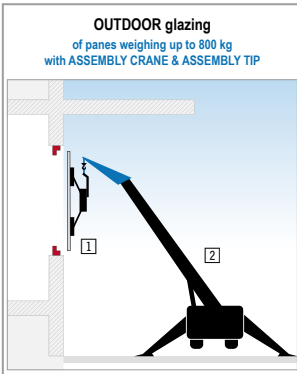
Heavydrive mounting devices
in front of the Burj Khalifa



OUTDOOR Glazing



Jakobshalle Basel, Switzerland

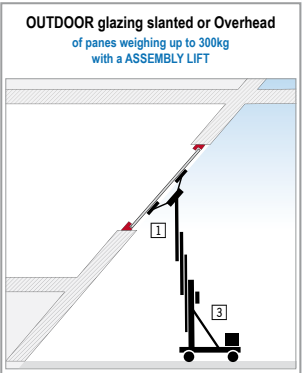
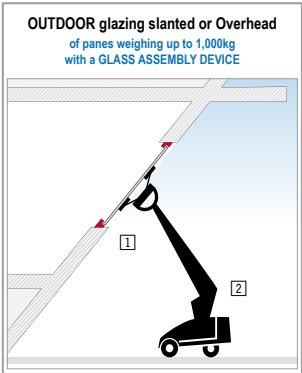


- 1 Vacuum suction systems from p.92 2 Assembly cranes from p.266 3 Glass assembly devices from p.58 4 Assembly lifts from p.48 5 Counterweight cranes from p.334

OUTDOOR Overhead Glazing



University of Wuerzburg, Germany



1 Vacuum suction systems from p.92



Image above: Assembly lift ML79 and Overhead vacuum suction system working in tight space
Image below: BV Miami Aventura Mall, USA



2 Glass assembly devices from p.58

3 Assembly lifts from p.48

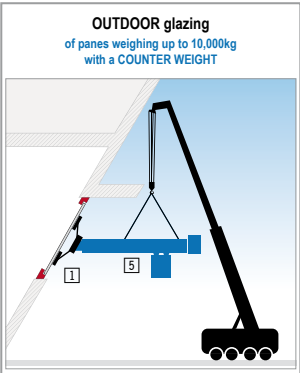
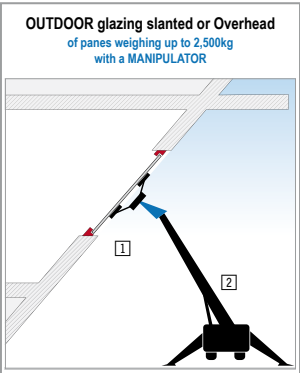
OUTDOOR Overhead Glazing



Jewish museum Frankfurt/Main, Germany



Image above: Trieste, Italy; lage below: Church in Pöding, Germany



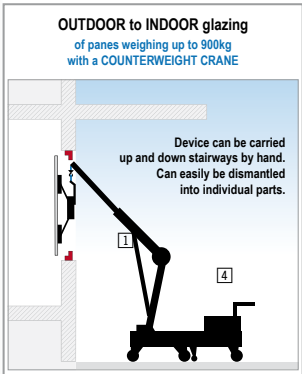
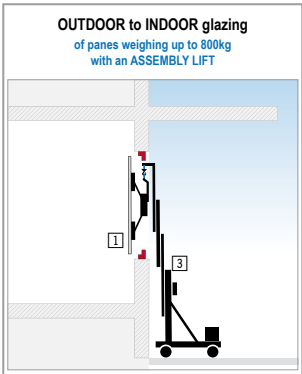
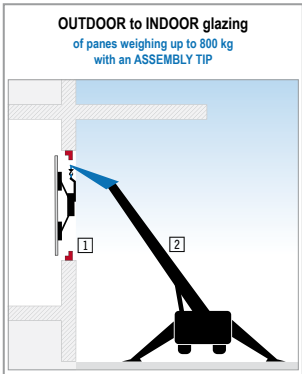
1 Vacuum suction systems from p.92 2 Assembly cranes from p.266

3 VSG Counterweight from p.198

OUTDOOR-to-INDOOR Glazing



Promenade in Donauwoerth, Germany



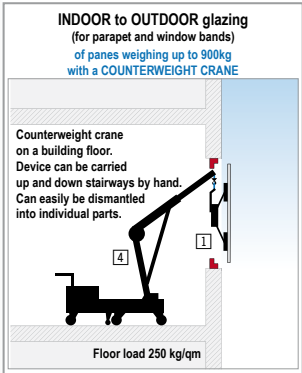
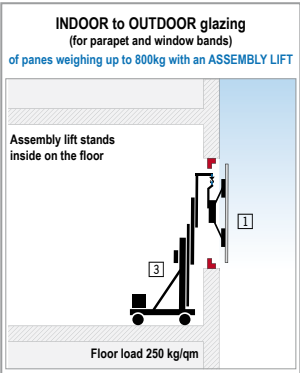
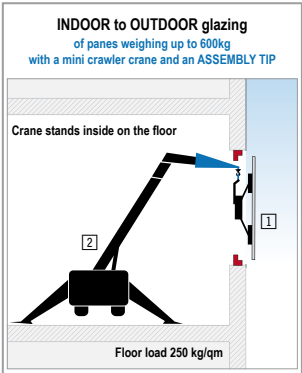
1 Vacuum suction systems from p.92 2 Assembly cranes from p.266

3 Assembly lifts from p.48
4 Counterweight cranes from p.334

INDOOR-to-OUTDOOR Glazing



Schlüter Systems Iserlohn, Germany



1 Vacuum suction systems from p.92 2 Assembly cranes from p.266

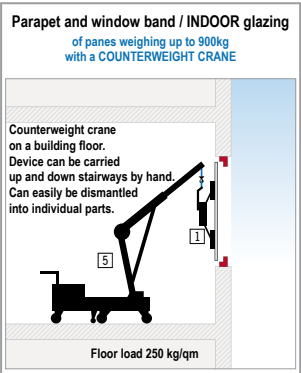
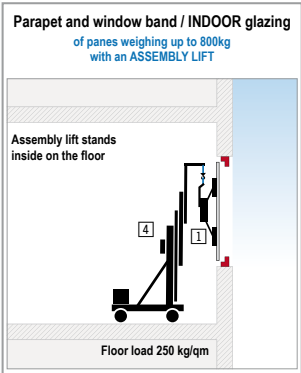
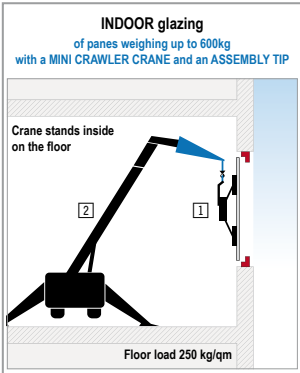
3 Assembly lifts from p.48

4 Counterweight cranes from p.334

INDOOR Glazing



Bulletproof glass, European Central Bank, Frankfurt am Main, Germany



1 Vacuum suction systems from p.92 2 Assembly cranes from p.266

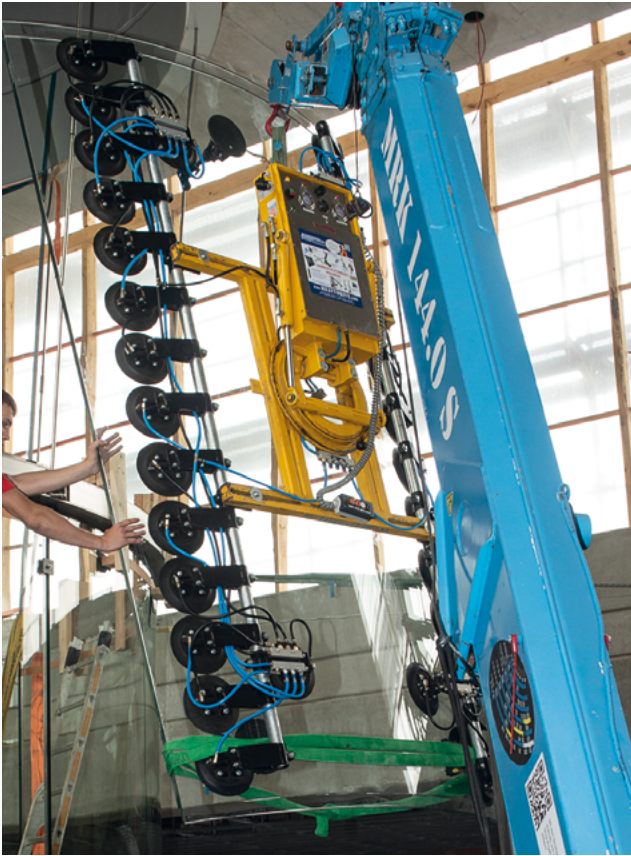
3 Glass mounting devices from p.58 4 Assembly lifts from p.48

5 Counterweight cranes from p.334

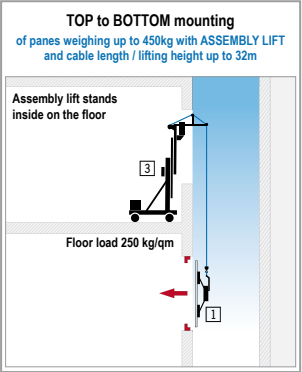
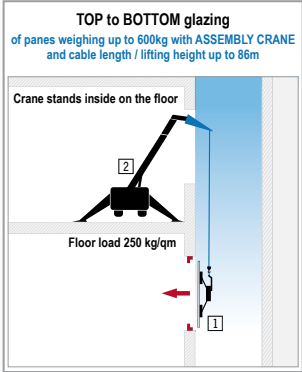
TOP-to-BOTTOM Glazing



Ovation of the Seas, MEYER WERFT, Papenburg, Germany



FlyStation Neufahrn near Munich, Germany



1 Vacuum suction systems from p.92 2 Assembly cranes from p.266

3 Assembly lifts from p.48

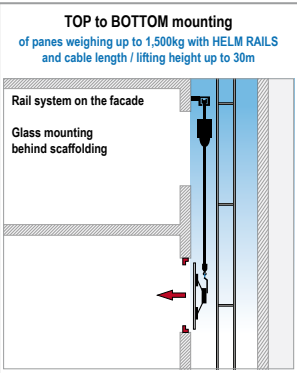
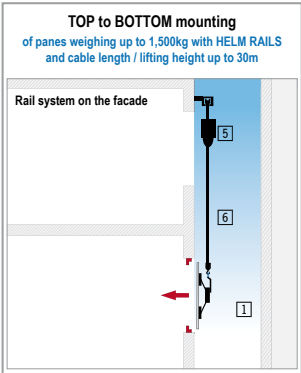
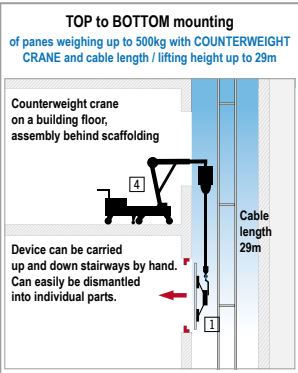
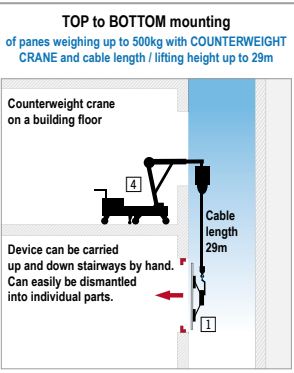
TOP-to-BOTTOM Glazing



Working precisely -
even behind scaffolding!



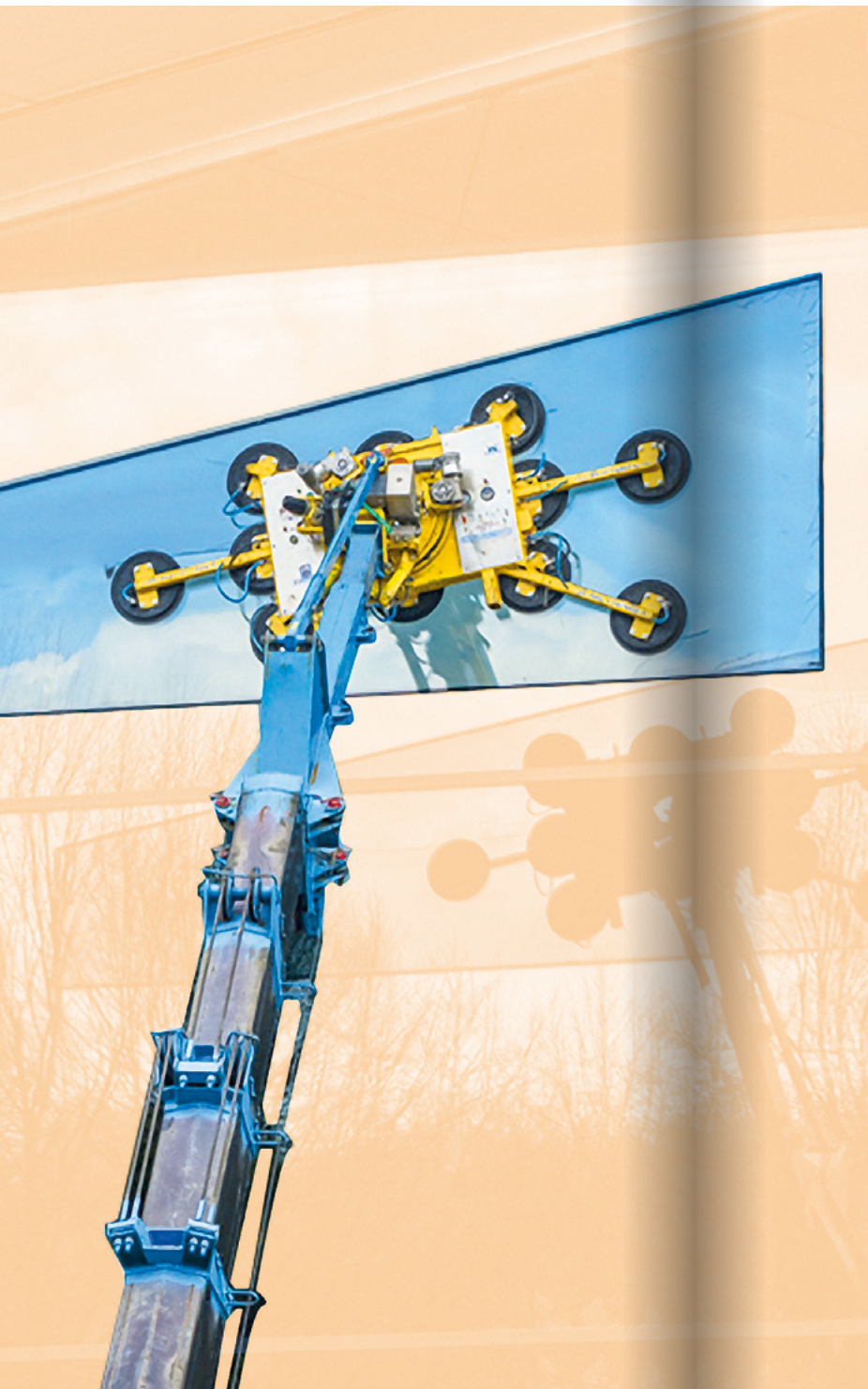
Accurate guidance of the huge pane between the narrow scaffolding, villa in Moscow



1 Vacuum suction systems from p.92
4 Counterweight cranes from p.334

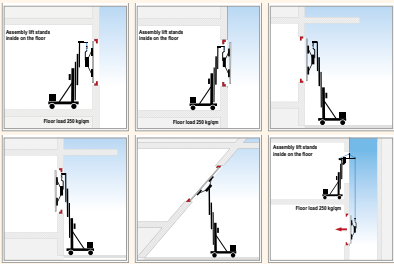
5 Helm rails from p.324

6 Chain lifts from p.328



- Manual / Battery driven Assembly Helpers

Assembly lifts with a capacity of 800 kg and a 7.9 m lift height



Learn more about glass mounting solutions with assembly lifts from p.48

- Semi-Automatic Assembly Helpers

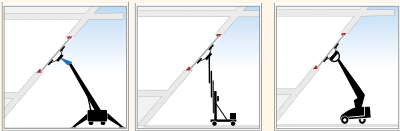
Glass assembly equipment with a capacity of up to 1,000 kg



Learn more about solutions with glass assembly devices from p.58

- Fully Automatic Assembly Helpers

Overhead manipulators with a capacity of up to 2,500 kg



Learn more about overhead assembly solutions from p.80



OVERHEAD
ASSEMBLY

ML 51.0 Assembly lift with a lift height of 5.15 m and a capacity of 360 kg. Only 1.76 m high!



Very small dimensions - only 1.76 m high

Incl. 9 x 16 kg counterweights

For Options, see p. 363



For Options and Features see "ML Accessories" from p.54

Model	ML 51.0
Capacity	360 kg
Lift Height	5.15 m
Carriage	Castors for solid floors, limited off-road suitability
Net Weight	144 kg
Transport Dimensions (LxWxH) in mm	1,080 x 755 x 1,760
Net Weight incl. 9 x 16 kg counterweights	288 kg
Add-on device:	
Crane jib	Adjustable crane jib 420 - 660 mm
Load fork	670 mm tooth length, 550 mm wide
Options	Mast lift via translation unit with 3 speeds via hand crank or cordless screwdriver
Optional	See "ML Accessories" from p.54
Transport	Fits in a van standing

Heavydrive® delivers different models with lift heights of 1.7 m, 2.8 m, 4 m and 5.1 m on request.
Find more information at www.heavydrive.com.

Lift large loads from a small base

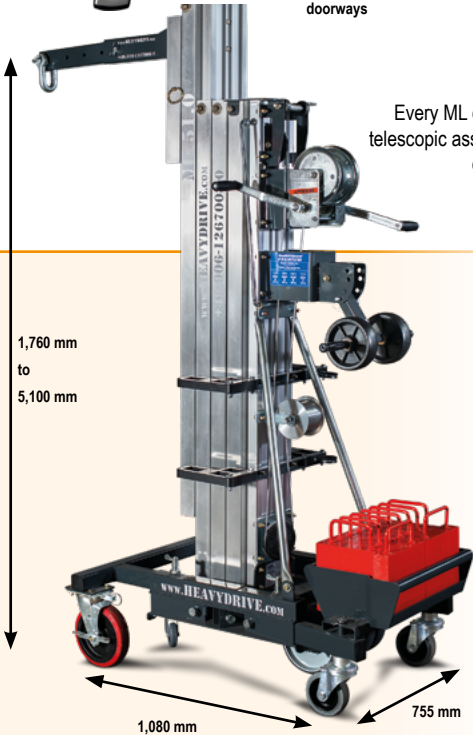
This assembly lift is extremely narrow and its quality unmatched. Its small dimensions are highly suited to easily assuming a safe position in narrow spaces and moving around comfortably.

Movable under a 360 kg load
Ultra narrow and manoeuvrable



Telescopic assembly boom adjustable from 42 to 66 cm


Fits through doorways




Every ML comes with a telescopic assembly boom or a load fork

OVERHEAD ASSEMBLY





ML 79 Assembly lift with a lift height of 7.9 m



Overhead assembly up to 7.90 m lift height



For Optionals, see p. 363

- 
- 
- 
- 

★ 450 kg up to 4 m lift height
★ 300 kg up to 7.9 m lift height

YOUR TRANSPORT AND LIFTING SPECIALIST
RENTAL & SALES WORLDWIDE

ML 79.0

www.heavydrive.com

For Options and Features see "ML Accessories" from p.54

Model	ML 79.0
Capacity	450 kg (up to 4m), 300 kg
Lift Height	7.90 m
Carriage	Castors for solid floors, limited off-road suitability
Net Weight	200 kg
Working Position	L 2,220 mm x W 2,140 mm
Transport Dimensions (LxWxH)	960 mm x 840 mm x 2,004 mm
Net Weight incl. 8 x 16 kg counterweights	332 kg
Add-on device:	
Crane jib	420 - 660 mm
Load fork	600 mm wide, 800 mm tooth length
Crane boom	300 kg capacity, up to 30 m hoisting capacity
Overhead manipulator	Capacity up to 450 kg
Standard	Incl. 4 steering rollers each Standard load fork 1 - gear winch
Options	Mast lift via gear box with 3 speeds via hand crank or cordless screwdriver
Overhead Suction System	Up to 450 kg capacity
Transport	Fits in a van

Heavydrive® delivers different models with lift heights of 3.50 m, 5.0 m, 6.5 m and 7.9 m on request.
Find more information at www.heavydrive.com.

Movable under a 450 kg load.
Compact equipment with many features!
Ex-warehouse delivery!





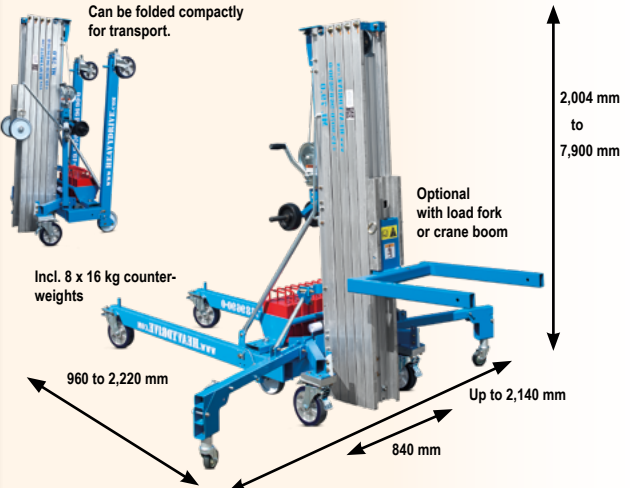
ML79 assembly lift and overhead vacuum suction system in a narrow space

OVERHEAD ASSEMBLY

This assembly lift is brilliant. With a fantastic lift height of 7.9 m, it helps to safely manoeuvre loads of up to 300 kg (from a height of 4 m).

One of the undeniable advantages of this assembly lift is that during glass pane mounting, the vacuum suction cups can be moved to the façade problem-free since Heavydrive® uses counter weights. With conventional lifts, for exhibition stand construction or sound engineering, the lifting carriage is below the lifted object.

Last but not least, this practical all-rounder is folded by hand. It is hand-operated and therefore requires very little servicing.



Can be folded compactly for transport.

Incl. 8 x 16 kg counterweights

Optional with load fork or crane boom

2,004 mm to 7,900 mm

960 to 2,220 mm

Up to 2,140 mm

840 mm

ML 79 - 800 Assembly lift with a lift height of 7.9 m and 900 kg Capacity

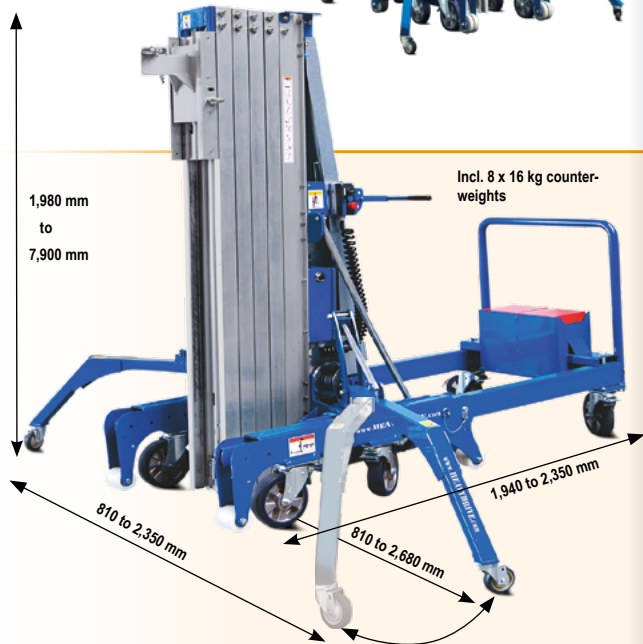


For Options and Features see "ML Accessories" from p.54

For Options, see p. 363



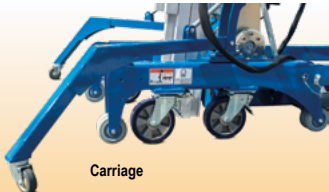
Optional with load fork or crane boom



Optional with load fork or crane boom



Counterweight



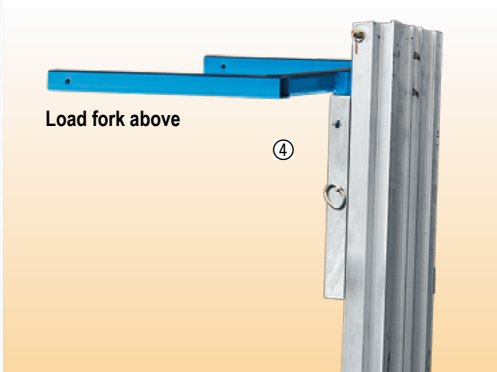
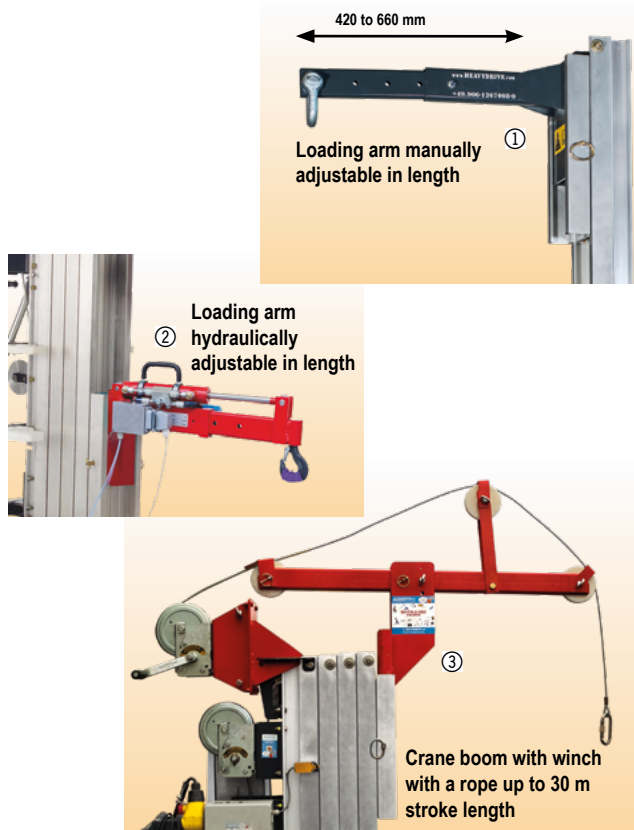
Carriage

Model	ML 79.0-800
Capacity	900 kg (up to 3.5 m), 850 kg (up to 6.5 m), 800 kg (up to 7.9 m)
Lift Height	7.90 m
Carriage	Castors for solid floors, limited off-road suitability Jib feet at front: Carriage L 2,350 mm x W 2,350 mm Jib feet at rear (90° to the side): Carriage L 1,940 mm x W 2,680 mm
Working position with no jib feet	L 1,940 x W 810 x H 1,980 mm
Transport Dimensions (LxWxH) in mm	1,100 x 810 x 1,980 mm
Net Weight incl. 8 x 16 kg counterweights	543 kg (up to 595 kg depending on mast lift drive type)
Options:	See "ML Accessories" from p.54
Standard	each including 4 steering rollers standard load fork 1 - gear winch Lugs for transport via forklift bags forklift pockets
Overhead Suction System	Up to 600 kg capacity
Transport	Fits in a van

Heavydrive® delivers different models with lift heights of 3.5 m, 5.0 m, 6.5 m and 7.9 m on request.
Find more information at www.heavydrive.com.

OVERHEAD ASSEMBLY

ML Accessories



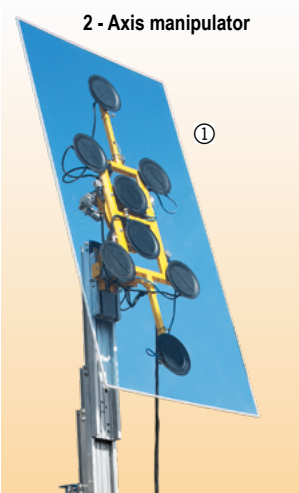
OVERHEAD
ASSEMBLY



Attachments:	Description:	ML 51.0	ML 79.0	ML 79.0-800
① Manual loading fork	up to 2-3 steps 420 - 620 mm	x	x	x
② Loading arm/ electro-hydraulic	electro hydraulically retractable 420 - 620 mm	x	x	x
③ Manual crane boom	300 kg of load capacity, up to 30 m hoist rope, 67 cm boom length	x	x	x
④ Load fork above	600 mm wide and 800 mm fork length for overhead mounting	x	x	x
⑤ Load fork below				

Further information can be found at www.heavydrive.com.

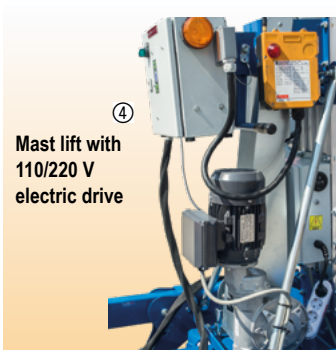
ML Accessories



Mast lift with gear box for hand crank or cordless screwdriver



For Optionals,
see p. 363



Mast lift with
110/220 V
electric drive

OVERHEAD
ASSEMBLY

For Optionals,
see p. 363



3 - Axis manipulator
②



Mast lift
with battery drive



Attachments	Description	ML 51.0	ML 79.0	ML 79.0-800
① Automatic 2 - Axis manipulator VSGU 600 K	elec. pivot 90° up/down, electr. fully rotating			x
② Manual 3 - Axis manipulator VSGU 450 K	Tilt 90 ° up / down infinitely variable lockable, full rotation, 45° lockable, swivel sideways at 45° to the left / right	x	x	x
③ Mast lift with gear box for hand crank or cordless screwdriver	3 speeds, slow / medium / fast	x	x	x
④ Mast lift with 110/220 V electric drive	Hand-radio control on / off with 2 speeds			x
⑤ Mast lift with battery drive	Battery pack with detachable wagon			x

Further information can be found at www.heavydrive.com.

NEW

OVERHEAD
ASSEMBLYFor Options,
see p. 363

The all-terrain GMG glass assembly device



This compact mobile assembly aid transports and places glass panes with mm-precision with a load capacity of up to 1,000 kilograms.

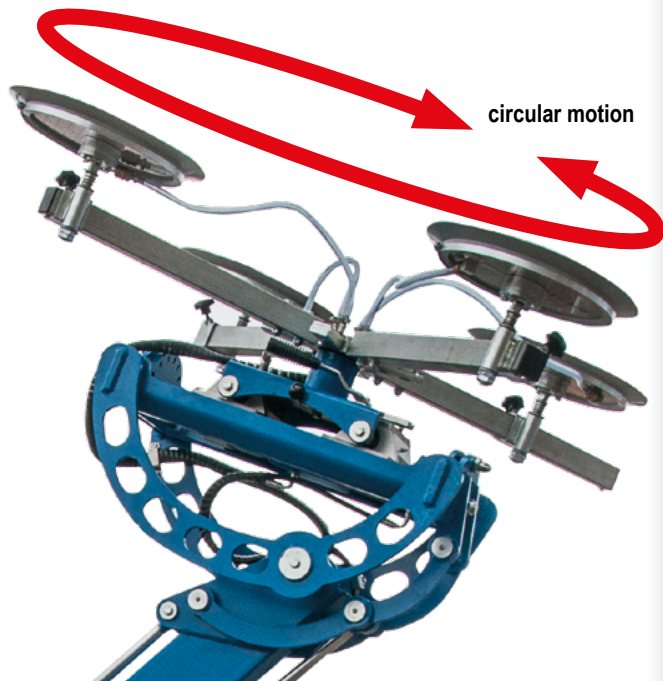
The low ceiling load capacity allows for problem-free glazing of heavy structural window elements.

The compact design fully supports the operator during the load handling processes. All functions are fully automatic for safety.

GMG devices have a 24-Volt electric drive. The charged battery can last for three to four working days on a single charge.

The advantages of the GMG glass assembly device

Complete elaborate manipulator head, which allows for more precise fine adjustment of the glass pane, without causing the glass pane to go off track.

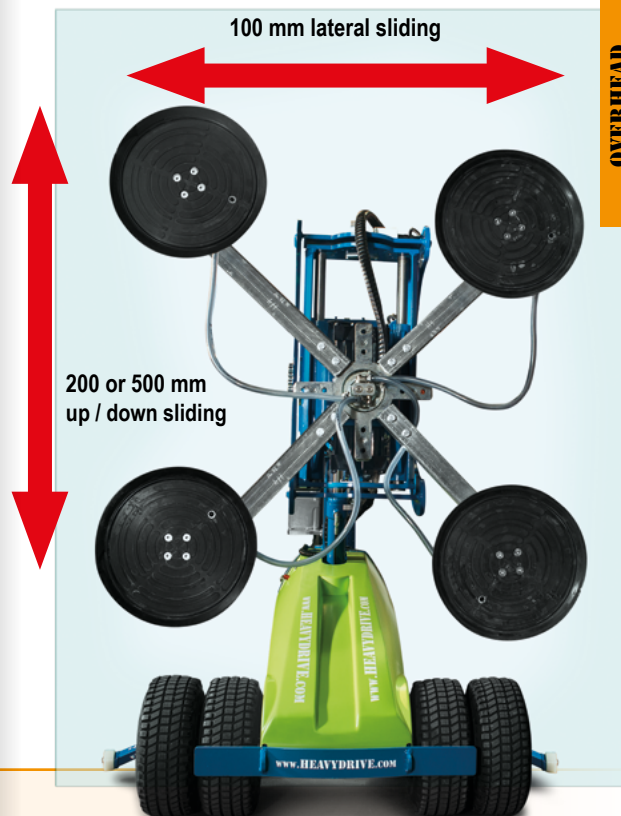


Larger angles and distances possible than with the competing products. For example, it is possible to insert a pane into a horizontal frame without tilting it.



Peerless on the market:

Fine adjustment of the glass pane without changing the angle!



OVERHEAD
ASSEMBLY

What makes us different from the competitors:

- Because of their design, competitive devices can usually move only 10 cm left-right, in circular motion. As a result, the glass pane tilt and must be readjusted
- Competitive devices do not usually have a suction system with a fine stroke capability. Since only the lift arm has a fine stroke, the glass pane is always swinging and tilting and needing to be readjusted
- More fine stroke between 0-200/500 mm vertical and 100 mm horizontal

GMG 350 - Movable under a 350 kg load

- Whether vertically or overhead, the device can be moved with mm-precision
- Conveniently controllable with remote control
- Precise fitting with fine stroke



Lifting height 2,870 mm

For Options,
see p. 363



Self-driving equipment
ideal for window mounting:
Movable under a 350 kg load,
even in narrow spaces!

For Options and Features
see "GMG Accessories" from p.76



Find more images and videos of our devices
in action at www.heavydrive.com

Transporting glass panes
through bottlenecks
such as doors is
also possible laterally



OVERHEAD
ASSEMBLY

Model	GMG 350
Capacity	Movable with 350 kg load in the front Movable with 250 kg load on the side
<u>Telescopic System:</u>	
Extension:	470 mm 380 - 850 mm in front of bumper
Boom Angle	90° / - 45°
Boom Type	Automatic
Lifting height middle suction frame vertical	2,870 mm
Lifting height middle suction frame horizontal	2,870 mm 1,000 mm
Table Height	
<u>Suction System:</u>	
Suction	min. 660 x 540 mm up to max. 1,450 x 1,450 mm
Pane vertical dimensions max.	3,450 x 3,450 mm
Pane horizontal dimensions max.	2,450 x 2,450 mm
Suction Cups:	Ø 4 x 275 mm, 2-circle system
Turning Angle:	360 ° manually, 45 ° lockable
Tilt Angle:	90 °
Lifting Tower	
Vertical Precision Lifting	500 mm
Horizontal Precision Lifting	100 mm
<u>Carriage</u>	
Drive	Hydrostatic, infinitely variable, front wheel drive
Wheels	All-terrain, foamed
<u>Motor:</u>	
Type	Battery drive 2x 12 V 95 Ah
Power	Electric 24 V with 220 V / 110 V - Charger lasting time 3-4 working days without recharging
<u>Dimensions:</u>	
L x W x H in mm	1,450 x 690 x 1,570 (carriage) L 1,830 to 2,300 mm (before the suction frame)
Weight unloaded	512 kg
Incl. counterweight (removable)	617 kg (7 x 15 kg steel plates)
Safety System	Load limiters
Rental Options	See pages 58 - 61
Transport	on carriage or pallet

GMG 575 - Movable under a 575 kg load



For Options,
see p. 363



For Options and Features
see "GMG Accessories" from p.76

INGENIOUS:
Your electric pane setting assistant.
Movable under a 575 kg load

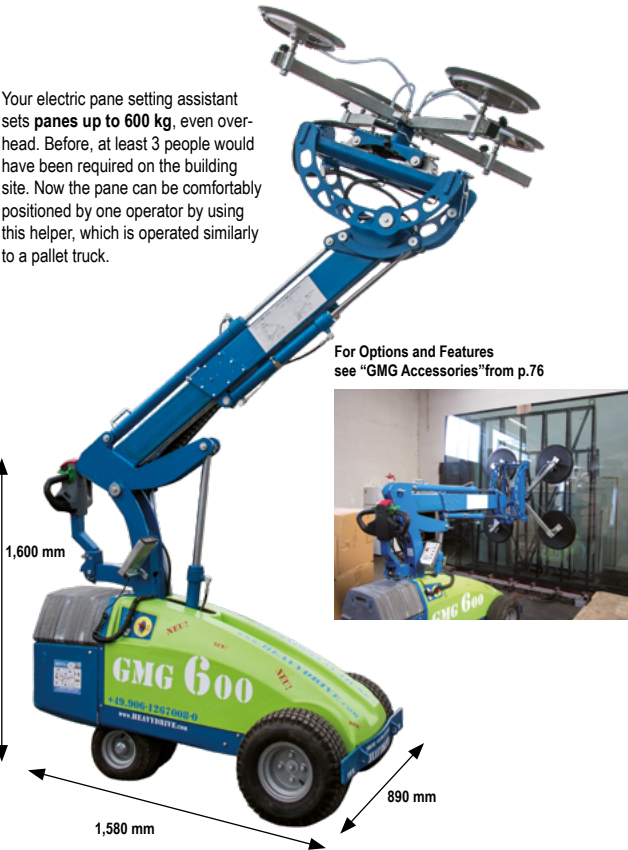


OVERHEAD
ASSEMBLY

Model	GMG 575
Capacity	575 kg frontal movement 350 kg sideways movement
Telescopic System:	
Extension:	1,070 mm; 800 mm - 1,870 mm before the bumper
Boom Angle	90° / - 45°
Boom Type	
Lifting height middle suction frame vertical	3,400 mm
Lifting height middle suction frame horizontal	3,800 mm
Table Height	1,000 mm
Suction:	
Suction in square	min. 730 x 730 mm up to max. 1,300 x 1,300 mm
Suction in line	730 - 1,600 mm
Pane vertical dimensions max.	4,540 x 4,540 mm
Pane horizontal dimensions max.	2,540 x 2,540 mm
Suction Cups:	Ø 4 x 360 mm, 2-circle system
Turning Angle:	180 ° automatically
Tilt Angle:	90 °
Lifting Tower	
Vertical Precision Lifting	200 mm
Horizontal Precision Lifting	100 mm
Carriage	
Drive	Hydrostatic, fully adjustable, front wheel drive
Wheels	All-terrain, foamed
Motor:	
Type	Battery drive 2x 12 V 150 Ah
Power	Electric 24 V with 220 V / 110 V - Charger lasting time 3-4 working days without recharging
Dimensions:	
L x W x H in mm	2,000 x 890 x 1,500 (carriage) L 2,800 - 3,850 (overall)
Weight unloaded	1,025 kg
Incl. counterweight (removable)	1,300 kg (21 x 13 kg steel plates)
Safety System	Load limiters
Rental Options	see „GMG Options“ from page 76
Transport	on carriage or pallet

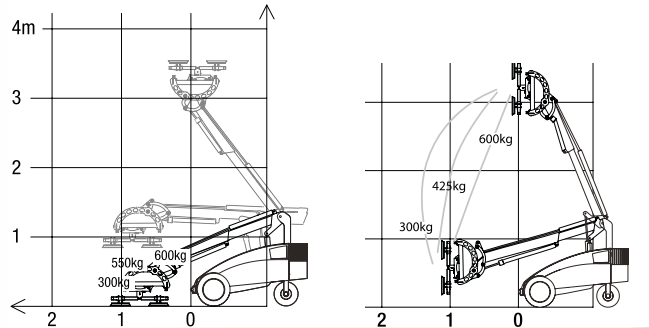
GMG 600 - Movable under a 600 kg load

Your electric pane setting assistant sets panes up to 600 kg, even overhead. Before, at least 3 people would have been required on the building site. Now the pane can be comfortably positioned by one operator by using this helper, which is operated similarly to a pallet truck.



For Options and Features see "GMG Accessories" from p.76

For Optionals, see p. 363



Model	GMG 600
Capacity	600 kg frontal movement 300 kg pushing + sideways movement
<u>Telescopic System:</u>	
Extension:	750 mm 500 - 1,250 mm before the bumper
Boom Angle	90° / - 15°
Boom Type	Automatic
Lifting height middle suction frame vertical	2,870 mm
Lifting height middle suction frame horizontal	3,000 mm
Table Height	1,000 mm
<u>Suction:</u>	
Suction in square	740 x 740 mm to 1,250 x 1,250 mm
Suction in line	740 - 1,600 mm
Pane vertical dimensions max.	3,250 x 3,250 mm
Pane horizontal dimensions max.	2,250 x 2,250 mm
Suction Cups:	H 1,000 mm
Turning Angle:	Ø 4 x 360 mm, 2-circle system 360 ° manually, 45 ° lockable
Tilt Angle:	90 °
Lifting Tower	
Vertical Precision Lifting	200 mm
Horizontal Precision Lifting	100 mm
<u>Carriage</u>	
Drive	Hydrostatic, fully adjustable, front wheel drive
Wheels	All-terrain, foamed
<u>Motor:</u>	
Type	Battery drive 2x 12 V 95 Ah
Power	Electric 24 V with 220 V / 110 V - Charger lasting time 3-4 working days without recharging
<u>Dimensions:</u>	
L x W x H in mm	1,580 x 875 x 1,600 (Carriage) L 2,100 to 2,850 mm (before the suction frame)
Weight unloaded	865 kg
Incl. counterweight (removable)	1,060 kg (13 x 15 kg steel plates)
Safety System	Load limiters
Rental Options	See pages 58 - 61
Transport	on carriage or pallet

GMG 785 - Up to 785 kg capacity



The GMG 785 is a **battery-operated window robot** with a **lifting capacity of 785 kg**. This machine was developed to facilitate the transport and assembly of window parts and similar airtight pieces. In addition, the GMG 785 can be supplied with other specially-manufactured lifting and aiding devices that enable the **transport and handling of other types of heavy loads**.

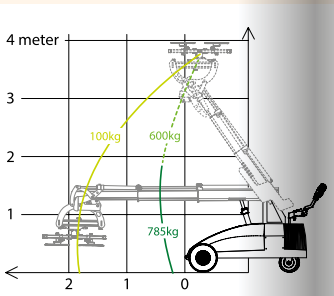
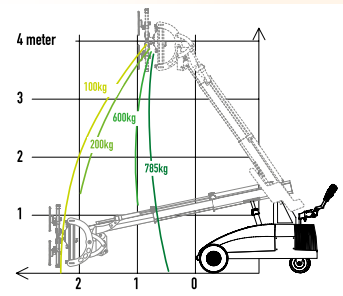
The GMG 785 has **all-terrain front-wheel drive** and a **modern electro-hydraulic system** for handling lifted pieces.

Large window sections for your new building can now be **easily placed with mm precision**. The wide tyres make the machine **suitable for all terrains**. The lift can be **conveniently moved** using a transporter or trailer.

Ideal for all terrains:
 with front-wheel drive, large
 wheels and electric brake.
 Waterproof according to IP65



For Optionals, see p. 363



NEW

OVERHEAD
ASSEMBLY

For Options and Features
see "GMG Accessories" from p.76

Model	GMG 785
Capacity	785 kg frontal movement 300 kg sideways movement
<u>Telescopic System:</u>	
Extension:	1,830 mm 660 - 2,420 mm before the bumper
Boom Angle	- 90° / +45°
Boom Type	Automatic
Lifting height middle suction frame vertical	4,000 mm
Lifting height middle suction frame horizontal	4,400 mm
Table Height	950 mm
<u>Suction:</u>	
Suction in square	L 800 x W 800 mm to L 1,200 x W 1,200 mm
Suction in line	L 800 to 1,520 mm
Pane vertical dimensions max.	L 3,200 x W 3,200 mm
Pane horizontal dimensions max.	L 1,700 x W 1,700 mm
Suction Cups:	Ø 4 x 400 mm, 2-circle system
Turning Angle:	180 ° automatically
Tilt Angle:	90 °
Lifting Tower	
Vertical Precision Lifting	200 mm
Horizontal Precision Lifting	75 mm
<u>Carriage</u>	
Drive	Hydrostatic, fully adjustable, front wheel drive
Wheels	All-terrain, foamed
<u>Motor:</u>	
Type	Battery drive 2 x 12 V - 150 Ah
Power	Electric 24 V with 220 V / 110 V - Charger lasting time 3-4 working days without recharging
<u>Dimensions:</u>	
L x W x H in mm	1,880 x 890 x 1,795 (frame) L 2,500 to 2,650 mm (before the suction frame)
Weight unloaded	1,200 kg
Incl. counterweight (removable)	1,473 kg (273 kg = 21 x 13 kg steel plates)
Safety System	Load limiters
Rental Options	See „GMG Options“ from page 76
Transport	on carriage or pallet

GMG 1000 - Movable under a 1000 kg load



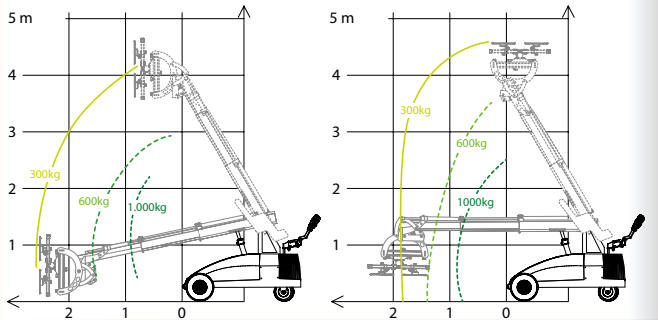
GMG 1000 can easily handle loads up to 1,000 kg loads (in standard version / with suction system for curved glass up to 750kg).

Equipped with a battery suction system, two 24V high-performance vacuum pumps, and a high-performance hydraulic system with proportional technology, all manoeuvres can be made by one person using the stepless radio remote control.

This machine was developed to facilitate the transport and mounting of window parts and similar airtight pieces. In addition, the GMG 1000 can be supplied with other specially-manufactured lifting and aiding devices that enable the transport and handling of other types of heavy loads. The GMG 1000 has all-terrain front-wheel drive and a modern electro-hydraulic system for handling lifted pieces.



For Options, see p. 363



Ideal for mounting big and heavy panes or window and door elements up to 1,000 kg

For Options and Features see "GMG Accessories" from p.76



OVERHEAD ASSEMBLY

Model	GMG 1000
Capacity	1,000 kg frontal movement 300 kg sideways movement
<u>Telescopic System:</u>	
Extension:	1,830 mm 660 - 2,420 mm before the bumper - 90° / +45°
Boom Angle	
Boom Type	Automatic
Lifting height middle suction frame vertical	4,000 mm
Lifting height middle suction frame horizontal	4,400 mm
Table Height	950 mm
<u>Suction:</u>	
Suction in square	L 830 x W 830 mm to L 1,200 x W 1,200 mm
Suction in line	L 920 to 1,550 mm
Pane vertical dimensions max.	L 3,200 x W 3,200 mm
Pane horizontal dimensions max.	L 1,700 x W 1,700 mm
Suction Cups:	Ø 4 x 400 mm, 2-circle system
Turning Angle:	180 ° automatically
Tilt Angle:	90 °
Lifting Tower	
Vertical Precision Lifting	200 mm
Horizontal Precision Lifting	75 mm
<u>Carriage</u>	
Drive	Hydrostatic, fully adjustable, front wheel drive
Wheels	All-terrain, foamed
<u>Motor:</u>	
Type	Battery drive 2 x 12 V - 150 Ah
Power	Electric 24 V with 220 V / 110 V - Charger lasting time 3-4 working days without recharging
<u>Dimensions:</u>	
L x W x H in mm (Carriage)	1,930 x 870 x 1,795
L x W x H in mm (overall)	2,560 x 870 x 1,795
Weight unloaded	1,340 kg
Incl. counterweight (removable)	1,850 kg (442 kg = 34 x 13 kg Steel plates)
Safety System	Load limiters
Rental Options	See „GMG Options“ from page 76
Transport	on carriage or pallet

GMG M 1000 - Power Glass Crawler
the all-terrain glass handler!

The GMG M 1000 is a state-of-the-art glass robot featuring **absolute all-terrain mobility and dynamic load balancing**. It was designed and built to start at the level where all the other glass robots quit!

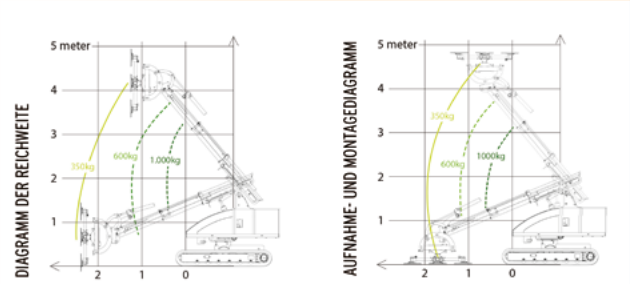
Its excellent manoeuvrability makes it suitable for any terrain.

It works even in tight spaces, with minimal ground pressure and without any need for support, regardless of the situation!



With the "Dynamic Levelling System", device levelling works completely automatically, even on steep terrain or uneven ground.

The GMG M 1000 is levelled independently and simultaneously, both on the longitudinal axis up to 15° (27%) and on the transverse axis up to 14° (25%), so that parts may be transported and mounted safely and effectively in any situation.



For Optionals,
see p. 363



OVERHEAD
ASSEMBLY

Model	GMG M 1000
Capacity	1,000 kg frontal movement 300 kg sideways movement
<u>Telescopic System:</u>	
Extension:	1,830 mm
Boom Angle	660 - 2,420 mm before the bumper - 90° / +45°
Boom Type	Automatically
Lifting height middle suction frame vertical	5,100 mm (with raised carriage)
Lifting height middle suction frame horizontal	4,200 mm
Table Height	950 mm
<u>Suction:</u>	
Suction in square	L 830 x W 830 mm to L 1,200 x W 1,200 mm
Suction in line	L 920 to 1,550 mm
Pane vertical dimensions max.	L 3,200 x W 3,200 mm
Pane horizontal dimensions max.	L 1,700 x W 1,700 mm
Suction Cups:	Ø 4 x 400 mm, 2-circle system
Turning Angle:	180° automatically
Tilt Angle:	90°
Lifting Tower	
Vertical Precision Lifting	200 mm
Horizontal Precision Lifting	75 mm
<u>Carriage</u>	
Drive	Chains, fully adjustable, electric, all-terrain
Wheels	-
<u>Motor:</u>	
Type	Battery drive 24 V - 180 Ah
Power	Electric 24 V with 220 V / 110 V - Charger lasting time 3 - 4 working days on a single charge
<u>Dimensions:</u>	
L x W x H in mm (Carriage)	2,180 x 1,470 - 1,640 x 2,125
L x W x H in mm (overall)	2,830 x 1,470 - 1,640 x 2,830
	More stability through automatic track widening
Weight unloaded	2,600 kg
Incl. counterweight (removable)	2,800 kg
Safety System	Load limiters
Rental Options	See „GMG Options“ from page 76
Transport	on carriage or pallet

GMG M 1400 - Power Glass Crawler
the all-terrain glass handler!

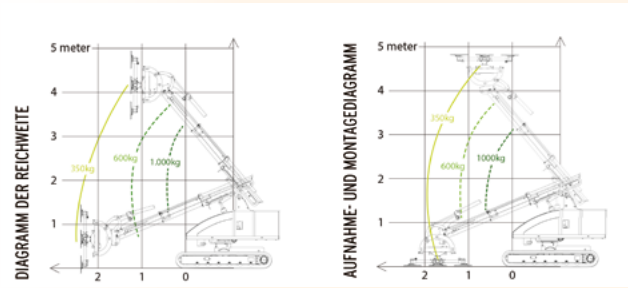
The GMG M 1400 is a state-of-the-art glass robot featuring **absolute all-terrain mobility and dynamic load balancing**. It was designed and built to start at the level where all the other glass robots quit!

Its excellent manoeuvrability makes it suitable for any terrain.

It works even in tight spaces, with minimal ground pressure and without any need for support, regardless of the situation!

With the "Dynamic Levelling System", device levelling works completely automatically, even on steep terrain or uneven ground.

The GMG M 1400 is levelled independently and simultaneously, both on the longitudinal axis up to 15° (27%) and on the transverse axis up to 14° (25%), so that parts may be transported and mounted safely and effectively in any situation.



For Optionals,
see p. 363



OVERHEAD
ASSEMBLY

Model	GMG M 1400
Capacity	1,400 kg frontal movement 300 kg sideways movement
Telescopic System:	
Extension:	1,830 mm
Boom Angle	660 - 2,420 mm before the bumper - 90° / +45°
Boom Type	Automatically
Lifting height middle suction frame vertical	5,100 mm (with raised carriage)
Lifting height middle suction frame horizontal	4,200 mm
Table Height	950 mm
Suction:	
Suction in square	L 830 x W 830 mm to L 1,200 x W 1,200 mm
Suction in line	L 920 to 1,550 mm
Pane vertical dimensions max.	L 3,200 x W 3,200 mm
Pane horizontal dimensions max.	L 1,700 x W 1,700 mm
Suction Cups:	Ø 4 x 400 mm, 2-circle system
Turning Angle:	180° automatically
Tilt Angle:	90°
Lifting Tower	
Vertical Precision Lifting	200 mm
Horizontal Precision Lifting	75 mm
Carriage	
Drive	Chains, fully adjustable, electric, all-terrain
Wheels	-
Motor:	
Type	Battery drive 24 V - 180 Ah
Power	Electric 24 V with 220 V / 110 V - Charger lasting time 3 - 4 working days on a single charge
Dimensions:	
L x W x H in mm (Carriage)	2,180 x 1,470 - 1,640 x 2,125
L x W x H in mm (overall)	2,830 x 1,470 - 1,640 x 2,830
	More stability through automatic track widening
Weight unloaded	2,600 kg
Incl. counterweight (removable)	2,800 kg
Safety System	Load limiters
Rental Options	See „GMG Options“ from page 76
Transport	on carriage or pallet

GMG Options



Your multi-purpose machine with many possible options and combinations.

Twin wheels on both sides for driving on uneven ground.



Lateral tilt protection for safe movement on all terrain.



Forklift truck adapter for using the glass assembly equipment at a height.

3 - 4 point lifting harness for safe transport to the construction site and within the construction site



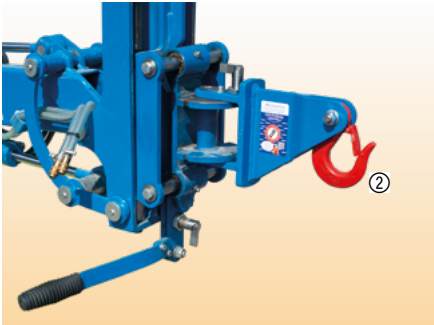
OVERHEAD ASSEMBLY

Options		350	575	600	785	1000
① Twin wheels	2 additional foamed wheels for load distribution	x	x	x	x	x
② Lateral tilt protection	2 booms with support roller, fold-out & secured	x	x	x	x	x
③ Lift truck platform	Steel platform for transport to the construction site and within the construction site, accessible from 2 sides	x	x	x	x	x
④ Lifting harness	3 - 4 point lifting harness for transport to the construction site and within the construction site	x	x	x	x	x
Further information can be found at		www.heavydrive.com				

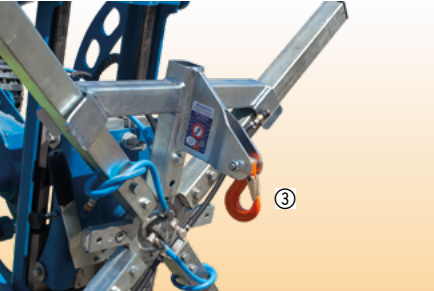
GMG Options



Load Fork:
GMG 575 / GMG 600



Load Hook: GMG 350



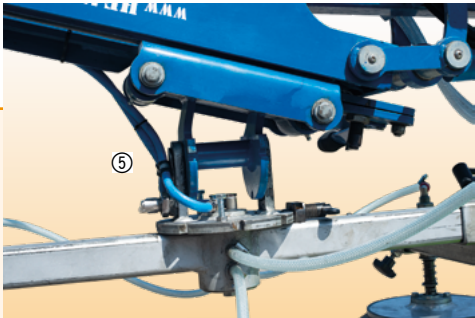
Load Hook:
GMG 575 / GMG 1000



One device for everything -
not only for
glass lifting



Radio remote control
GMG 350 / GMG 1000



Angle adapter:
GMG 350

Attachments	Description	350	575	600	785	1000
① Load fork	300 kg capacity, L 660 x W 600 H 960 mm	x	x	x	x	x
② Load hook	Receiving device with swivel hook	x	-	-	-	-
③ Load hook	Receiving device with swivel hook	-	x	x	x	x
④ Remote control radio	Wireless control panel with practical carrying strap, rechargeable battery	x	x	x	x	x
⑤ Angle adapter	Adapter for placing panes on tables	x	-	-	-	-

Further information can be found at www.heavydrive.com

VSGU - 3 - Axis - Overhead manipulator
for assembly cranes or loading cranes
for panes - up to 2,500 kg capacity

Up to 600 kg capacity
for light panes

Up to 1,600 kg capacity
for medium to heavy panes

Up to 2,500 kg capacity
for heavy panes

Glass mounting at Hans-Peter Porsche Traumwerk, Berchtesgaden, Germany



Victoriei Office Building in Bucharest, Romania



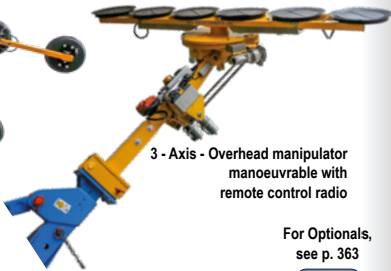
VSGU - 3 - Axis - Overhead manipulator
for assembly cranes or loading cranes
for light panes - up to 600 kg capacity

VSGU 450 K



with quick-change system
(patented by Heavydrive®)

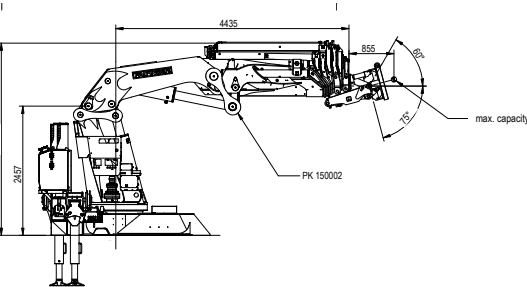
VSGU 450 KL



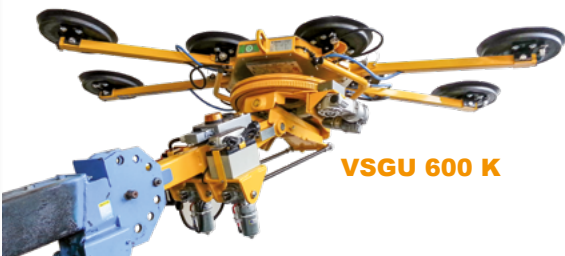
3 - Axis - Overhead manipulator
manoeuvrable with
remote control radio

Options:

Non-marking suction cups,
remote control radio for axis movement



For Options,
see p. 363



VSGU 600 K



OVERHEAD
ASSEMBLY

	VSGU - Lightweight Overhead Assembly Solution		
Model	VSGU 300 K	VSGU 450 KL	VSGU 600 K
Capacity	300 kg	450 kg	600 kg
Suction Cups	6	6	8
Net Weight	150 kg	150 kg	170 kg
Function:			
Rotate	360° motorised		
Tip	30° left / right motorised		
Tilt angle up/down	110° motorised		
Dimensions: L x W x H in mm	1,000 x 400 x 500		
Motor	Battery-powered 12 V		
Transport	On trolley		
Options	Adapter to crane boom Adaptable suction system		

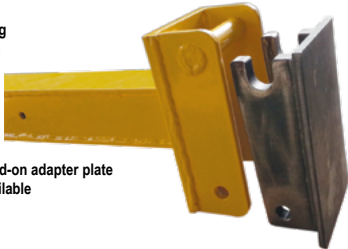


VSGU on trolley

VSGU - 3 - Axis - Overhead manipulator for assembly cranes or loading cranes for moderately heavy panes - up to 1,600 kg capacity



Manipulator VSGU1600K and assembly crane MRK 195 in action: 1.2 t pane, glazing under protrusion (St. Jakobshalle in Basel, Switzerland)



Assembly of VSGU on crane booms



BV Miami Aventura Mall, USA

VSGU - Heavy Overhead Assembly Solution			
Moderately heavy panes			
Model	VSGU 900 K	VSGU 1200 K	VSGU 1600 K
Capacity	900 kg	1,200 kg	1,600 kg
Suction Cups	12 x 150 kg	2 x 150 kg + 6 x 400 kg	6 x 150 kg + 6 x 400 kg
Net Weight VSGU	125 kg	165 kg	165 kg
VSG	135 kg	130 kg	135 kg
Total	260 kg	295 kg	300 kg
VSGU dimension in mm	L 1,270 x W 800 x H 640	L 1,050 x W 670 x H 620	L 1,050 x W 670 x H 620
Function:	360 ° fully rotating motor 30 ° left / right hydraulic 110° hydraulic up / down		
Rotation			
Swivelling			
Tilting			
Dimensions VSGU	L 1,270 x W 800 x H 640		
Suction VSG	L 2,040 x W 1,080 mm to L 3,340 x W 1,560 mm		
Suction in line	L 2,040 to 3,340 mm		
Pane dimensions			
vertical	L 6,340 x W 4,560 mm		
horizontal	L 4,340 x W 2,560 mm		

VSGU - 3 - Axis - Overhead manipulator
for assembly cranes or loading cranes
for light panes - up to 2,500 kg capacity



Project in Miami, USA

OVERHEAD
ASSEMBLY

VSGU - Heavy overhead mounting solution			
Heavy Panes			
Model	VSGU 1800 K	VSGU 2000 K	VSGU 2500 K
Capacity	1,800 kg	2,000 kg	2,500 kg
Suction Cups	10 x 400 kg	12 x 400 kg	14 x 400 kg
Net Weight VSGU			
VSG	350 kg	350 kg	350 kg
Total	445 kg	455 kg	465 kg
	795 kg	805 kg	815 kg
Function:	360 ° continuously hydraulic 90 ° left/right hydraulic 110° up/down hydraulic		
Rotate			
Tip			
Tilt angle			
Dimensions VSGU	L 1,200 x W 500 x H 800		
Suction VSG	L 3,012 x W 1,570		
Suction in line	L 2,070 to 4,624 mm		
Pane dimensions			
vertical	L 6,200 x W 4,570 mm		
horizontal	L 4,012 x W 3,200 mm		

7-axis manipulator
The ALL-ROUNDER FOR EVERYONE



Optional:
Radio Remote Control



Further 4 axes are made available by Merlo, Manitou, Hiab, Cramer etc.

Extremely low overhead suction point of 1m above the floor



7-axis manipulator with remote control to accommodate using an indoor or all-terrain telescopic forklift.

The manipulator can be mounted very easily by placing the forklift in the forklift pockets at the bottom of the unit or by using the automatic forklift hook. The axes can be controlled by a single person by a radio remote control.

Once secured, it will be ready to go.

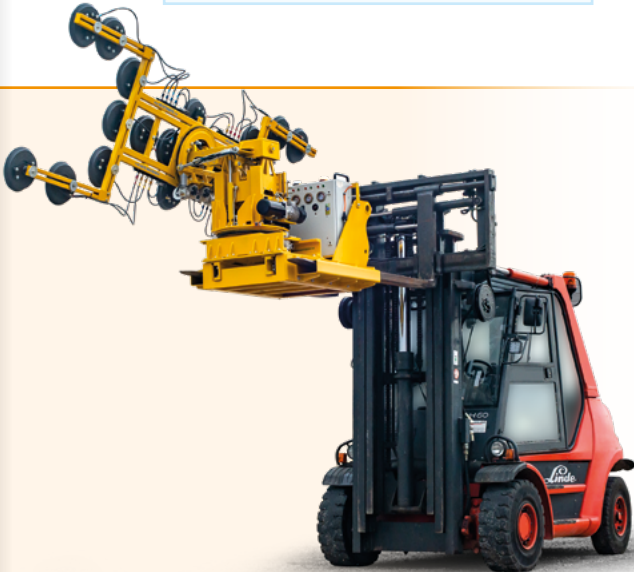
The correct suction system on the manipulator is determined in advance with our technicians.



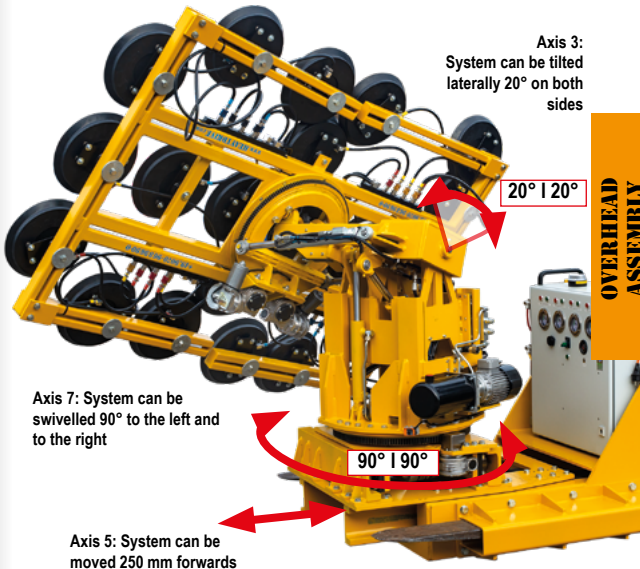
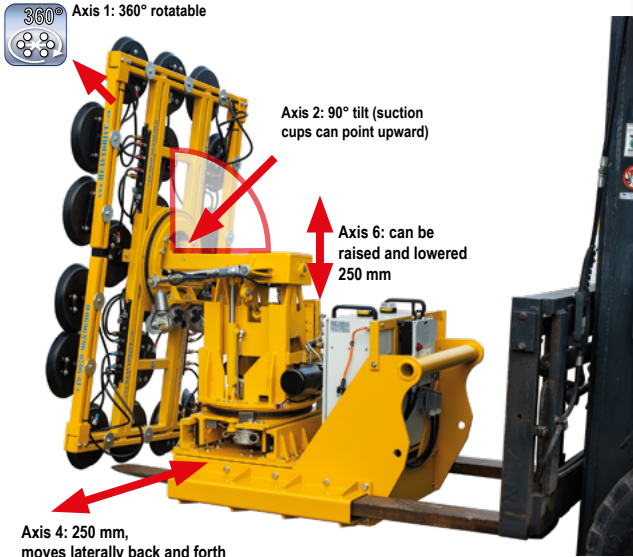
7-axis manipulator
with radio remote control
to hold with an
indoor or all-terrain
telescopic forklift
For rent or for sale!



Find more images and videos of our devices
in action at www.heavydrive.com





OVERHEAD
ASSEMBLY



OVERHEAD
ASSEMBLY

Model	VSG STU 500 K	VSG STU 1000 K	VSG STU 1500 K	VSG STU 2000 K
1st Axis:	VSG suction system motorised full 360° turning			
2nd Axis:	VSG suction system hydraulic pivoting 0-100°, 0° horizontal to 90° vertical with an extra 10°			
3rd Axis:	Hydraulic sideways tilting 20° to the left / 20° to the right to compensate for the lateral tilt of the telescopic forklift			
4th Axis:	Side-shift hydraulic movement left / right 250 mm			
5th Axis:	Hydraulic forward / backward movement of the suction manipulator 250mm			
6th Axis:	Hydraulic raising / lowering of the manipulator by 250 mm			
7th Axis	Manipulator rotating tower 90° to the left or 90° to the right for lateral transport, e.g. through gates or side glazing			
Net Weight in kg	1,000			
Operation	all axes can be moved simultaneously with radio remote control			
Battery drive	24 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)			
Storage & transportation	loaded with forklift			
Connection to telescopic lift truck manual	Forklift pockets on the side of the device, mechanically secured by screws			
Connection to telescopic lift truck automatic	Placement into fork lifter hook, hydraulically screwed			
Transport dimensions in mm	L 2,050 x W 1,200 x H 1,600 with suction frame, basic unit H 1,000			
Deepest over-head suction size	unbeatable 1,130 mm above ground			

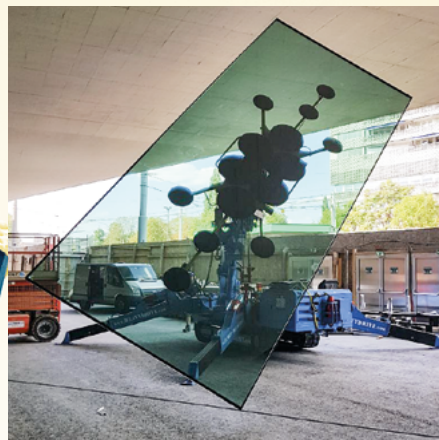


  Find more images and videos of our devices in action at www.heavydrive.com

Suction frame Model S2	VSG 2000 K MH L
Capacity	2,000 kg
Suction Cups	20 x T15
Pane vertical dimensions max.	5,660 x 3,530 mm
Pane horizontal dimensions max.	4,660 x 2,530 mm
Suction area (LxW) in mm (base frame)	2,150 x 1,200
Suction area (LxW) in mm with attachment arms	3,660 x 1,530
Safety System	4-circuit system
Battery	24 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)



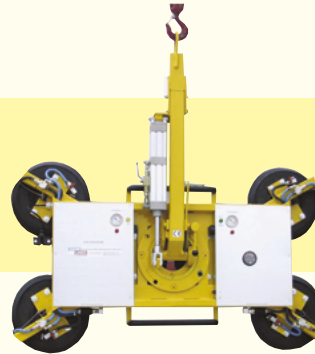
Mounting a 5.2 t pane under a protrusion
at Grand Park Hotel Rovinj, Croatia



For flat and curved panes, coated and porous panes, panels and glass fins

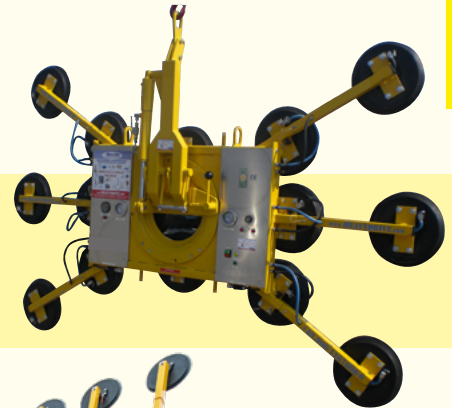
- VSG for light panes

Vacuum suction system up to 900 kg capacity



- VSG for medium weight panes

Vacuum suction systems up to 1,500 kg capacity



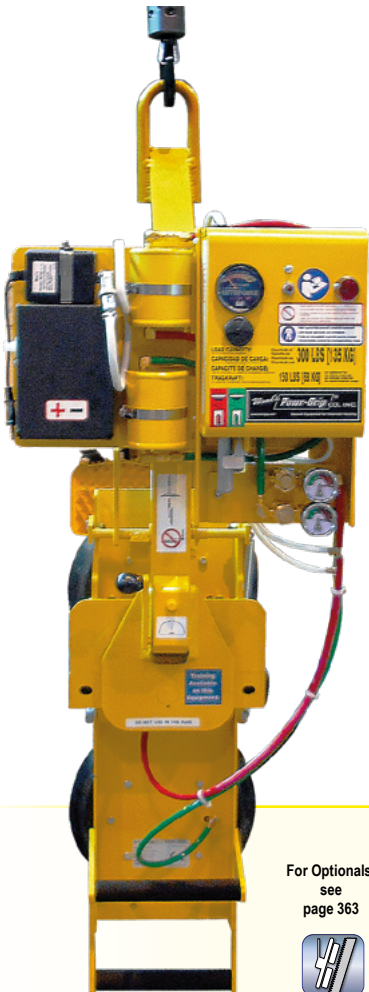
- VSG for heavy panes

Vacuum suction system over 2,000 kg capacity

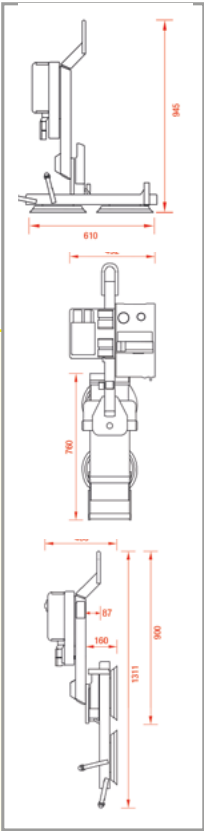


VACUUM SUCTION
SYSTEMS

VSG 135 PL - Vacuum suction system
Up to 135 kg capacity – rotating



Dimensions of VSG 135 PL in mm



For Optionals,
see
page 363



Improve performance,
safety and durability with:
cupcleaner.heavydrive.com



VACUUM SUCTION
SYSTEMS

View all suction systems
from p.354 for a better comparison.

Model	VSG 135 PL
Capacity	135 kg
Suction Cup	2 x T13
Weight	34 kg
Overall depth in mm	400
Pane vertical dimensions max.	2,610 x 1,210 mm
Pane horizontal dimensions max.	1,610 x 1,210 mm
Suction (L x W) in mm	610 x 210
Tilting / rotation	90° manually / 90° to the left and to the right
Safety	2-circuit system
Battery Pack	12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)
Storage & Transport	On trolley

VSG 300 K - Vacuum suction system
Up to 300 kg capacity



Option to fit with a short suspension arm (570 mm) for assembling skylights in conservatories, for example

For Optionals, see p. 363



Light system for window mounting up to 300 kg.
Best used with small sizes of 1.0 m width and 1.20 m height!

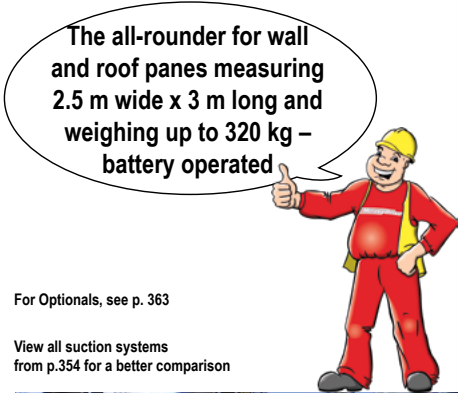


VACUUM SUCTION SYSTEMS

View all suction systems from p.354 for a better comparison.

Model	VSG 300 K
Capacity	300 kg
Suction cup	4 x T15, individually lockable
Weight	34 kg
Overall depth in mm	200
Pane vertical dimensions max.	2,900 x 1,680 mm
Pane horizontal dimensions max.	1,900 x 1,680 mm
Suction (LxW) in mm	900 x 680
Suction (LxW) in mm with extension arms	-
Tilt / Turn / Lock	90° / 360° / 45° manually
Safety	2-circuit system
Battery Pack	12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)
Accessories	830 mm long load arm
Optional	570 mm short load arm
Storage & Transport	On trolley

VSG 320 PL



For Optionals, see p. 363

View all suction systems
from p.354 for a better comparison



Glazing in a courtyard

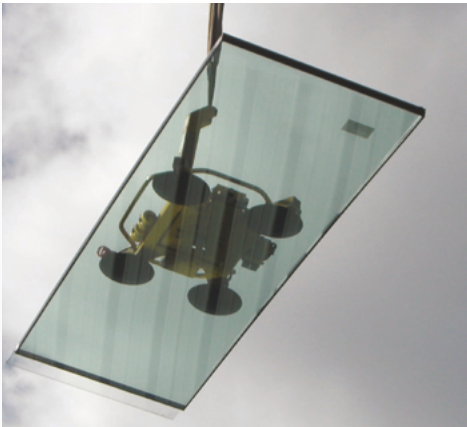
Model	VSG 320 PL
Capacity	320 kg
Suction Cup	4 x T13
Weight	34 kg
Overall depth in mm	233
Pane vertical dimensions max.	3,290 x 1,305 mm
Pane horizontal dimensions max.	2,290 x 1,305 mm
Suction (LxW) in mm	1,290 x 305
Tilt / Turn / Lock	90° / 180° / 90° manually
Safety	2-circuit system
Battery Pack	12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)
Storage & Transport	Aluminium case



Depth
230 mm



VSG 320 P - Vacuum suction system for building sites, up to 320 kg capacity



Panes up to 320 kg

Rotates 360° and
tilts 90°



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safety and durability with:
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New Edeka building in Dillingen



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in action at www.heavydrive.com

VACUUM SUCTION
SYSTEMS

Model	VSG 320 P
Capacity	320 kg
Suction Cup	4 x T13
Weight	58 kg
Overall depth in mm	283
Pane horizontal dimensions max.	2,769 x 3,642 mm
	1,769 x 1,642 mm
Suction (LxW) in mm	769 x 642
Suction (LxW) in mm with extension arms	1,643 x 1,152
Tilt / Turn / Lock	90° / 360° / 90° manually
Safety	2-circuit system
Battery Pack	12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)
Storage & Transport	On trolley



Depth
283 mm



VSG 450 K

Vacuum suction unit for glass panes weighing up to 450 kg, rotates 360°, automatically lockable every 45°, swings out 90°.

Secured by a dual-circuit vacuum system.



View all suction systems from p.354 for a better comparison

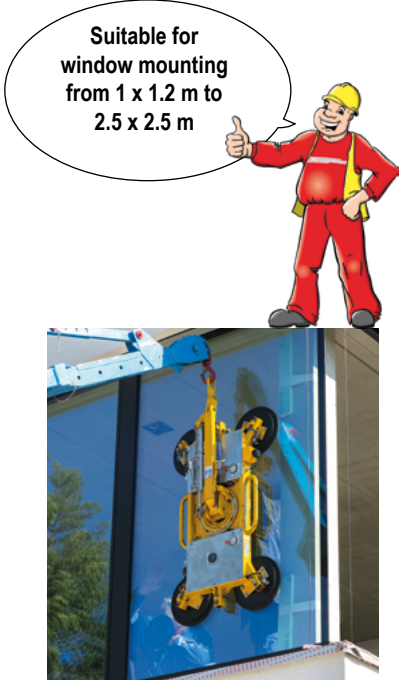
Model	VSG 450 K
Capacity	450 kg
Suction cup	6 x T15
Weight	45 kg
Overall depth in mm	200
Pane vertical dimensions max.	3,900 x 2,500 mm
Pane horizontal dimensions max.	1,900 x 1,680 mm
Suction (L x W) in mm (base frame)	900 x 680
Suction (L x B) in mm with extension arms	2,100 x 680
Tilt / Turn / Lock	90° / 360° / 45° manually
Safety	2-circuit system
Battery Pack	12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)
Storage & Transport	On trolley

For Optionals, see p. 363



VSG 450 KS - ultra slim version

Suitable for window mounting from 1 x 1.2 m to 2.5 x 2.5 m



VACUUM SUCTION SYSTEMS

160 mm

Model	VSG 450 KS (extra flat)
Capacity	450 kg
Suction Cup	6 x T15
Weight	60 kg
Overall depth in mm	160 mm
Pane vertical dimensions max.	3,300 x 2,780 mm
Pane horizontal dimensions max.	2,300 x 1,780 mm
Suction (L x W) in mm	1,300 x 780 mm
Suction (L x B) in mm with extension arms	-
Tilt / turn / lock	90° / 360° / 90° manually
Safety	2-circuit system
Battery Pack	12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)
Storage & Transport	On trolley

For Optionals, see p. 363



Depth 160 mm



VSG 450 KL - Vacuum suction system
Up to 450 kg capacity

With a loading capacity of 300 kg and 4 suction cups, it can be extended to 450 kg, and has a suction length of 1.8 m. Panes for XXL canopies up to 8 m long and 1.5 m wide can be inserted easily.

For glass panes up to a length of 8000 mm. Can be extended to 8 suction cups. This vacuum lifter is suitable for glass panes up to 450 kg.

Rotates 360°, automatically locks every 45°, can rotate 90°. Secured by a dual-circuit vacuum system.



Also available with non-marking suction cups



View all suction systems from p.354 for a better comparison



VACUUM SUCTION SYSTEMS

Model	450 KL 2	450 KL 3	450 KL 4	450 KL 6
Capacity	450 kg			
Suction Cup	4 - 8 x T15, individually lockable arms			
Weight	40 kg	55 kg	60 kg	80 kg
Overall depth in mm	190			
Pane vertical dimensions max.	4,000 x 2,300 mm	5,000 x 2,300 mm	6,000 x 2,300 mm	8,000 x 1,300 mm
Pane horizontal dimensions max.	3,000 x 1,300 mm	4,000 x 1,300 mm	5,000 x 1,300 mm	7,000 x 1,300 mm
Suction (LxW) in mm	[1] 1,330 x 300	1,330 x 300	[4] 2,000 x 300	2,000 x 300
Suction (LxW) in mm with extension arms	[2] 2,000 x 300	[3] 3,000 x 300	[5] 4,000 x 300	[6] 5,000 x 300 [7] 6,000 x 300
Tilt / Turn / Lock	90° / 360° / 90° manually			
Safety	2-circuit system			
Battery Pack	12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)			
Storage & Transport	Aluminium case			

For Optionals, see p. 363



Transport in an unbreakable aluminium case



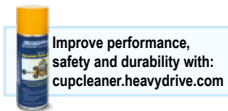
Depth 190 mm



...for panes up to 8 m long!
Always in stock!



VSG 600 KL - Vacuum suction system
Up to 450 kg capacity



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safety and durability with:
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Transport in an unbreakable
aluminium case



Also available with
non-marking suction cups

VACUUM SUCTION
SYSTEMS

View all suction systems
from p.354 for a better comparison

Model	600 KL 2	600 KL 4	600 KL 6
Capacity	600 kg		
Suction Cup	6 - 10 x T15		
Weight	82 kg	101 kg	116 kg
Overall depth in mm	190		
Pane vertical dimensions max.	4,000 x 2,300 mm	6,000 x 2,300 mm	8,000 x 2,300 mm
Pane horizontal dimensions max.	3,000 x 1,300 mm	5,000 x 1,300 mm	5,000 x 1,300 mm
Suction (LxW) in mm	1 2,000 x 300	2,000 x 300	2,000 x 300
Suction (L x B) in mm with extension arms	-	2 4,000 x 300	3 5,000 x 300 4 6,000 x 300
Tilt / Turn / Lock	90° / 360° / 90° manually		
Safety	2-circuit system		
Battery Pack	12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)		
Storage & Transport	Aluminium case		

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in action at www.heavydrive.com

For Optionals,
see p. 363



Depth
190 mm



VSG 500 P - Vacuum suction system
Up to 500 kg Capacity

Adjustable thanks to its extension arms, this vacuum suction lifter is suitable for glass panes of up to 500 kg and 6000 mm in length. Rotates 360°, automatically locks every 45°, can rotate 90°.

Secured by a dual-circuit vacuum system. Transported on a trolley.

Also available with non-marking cups for coated panes.



Düsseldorf Harbour

Find more images and videos of our devices in action at www.heavydrive.com

View all suction systems from p.354 for a better comparison

Model	VSG 500 P
Capacity	500 kg
Suction Cup	8 x T13
Weight	91 kg
Overall depth in mm	290 mm
Pane vertical dimensions max.	4,118 x 3,829 mm
Pane horizontal dimensions max.	3,118 x 2,829 mm
Suction (LxW) in mm	1,188 x 829
Suction (LxW) in mm with extension arms	2,330 x 1,490 or (optional 4,050 x 700)
Tilt / Turn / Lock	90° / 360° / 45° manually
Safety	2-circuit system
Battery Pack	12 V, 3-4 days continuous use, without recharging (recharging via 220V plug)
Storage & Transport	On trolley

For Optionals, see p. 363



Depth 290 mm

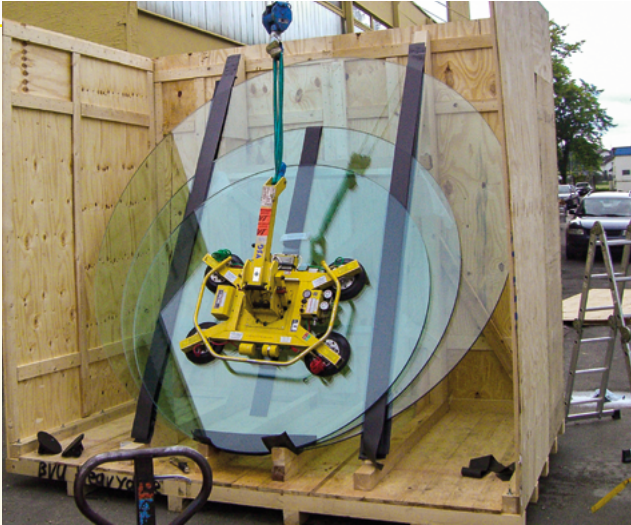


VACUUM SUCTION SYSTEMS

For panes up to 6000 mm long!

24 hour delivery across Europe!

Guggenheim Museum, New York



VSG 600 K - Vacuum suction system
Up to 600 kg capacity



With 4 arms that can be added or removed instantly.

Model	VSG 600 K
Capacity	600 kg
Suction Cup	8 x T 15
Weight	65 kg
Overall depth in mm	200
Pane vertical dimensions max.	4,200 x 3,300 mm
Pane horizontal dimensions max.	3,200 x 2,300 mm
Suction (L x W) in mm (base frame)	810 x 700
Suction (LxW) in mm with extension arms	2,200 x 1,300
Tilt / Turn / Lock	90° / 360° / 90° manually
Safety	2-circuit system
Battery Pack	12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)
Storage & Transport	On trolley

For Options, see p. 363

Depth 200 mm

VSG 600 KS - Extra narrow version
Up to 600 kg capacity



Ultra-thin:
Only 160 mm wide, this device will always fit between the frame and the façade!

Railway station in Belfort, France



Model	VSG 600 KS (Extra slim)
Capacity	600 kg
Suction Cup	8 x T15
Weight	105 kg
Overall depth in mm	160 mm
Pane vertical dimensions max.	4,400 x 3,300 mm
Pane horizontal dimensions max.	3,400 x 2,300 mm
Suction (LxW) in mm (Base frame)	1,300 x 780
Suction (LxW) in mm with extension arms	2,400 x 1,300
Tilt / Turn / Lock	90° / 360° / 90° manually
Safety	2-circuit system
Battery Pack	12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)
Storage & Transport	On trolley

For Options, see p. 363

Depth 160 mm

VSG 750 KS - Extra narrow version
Up to 750 kg capacity



Perfectly suited to
glazing behind
scaffolding



Model	VSG 750 KS (extra flat)
Capacity	750 kg
Suction Cup	10 x T15
Weight	120 kg
Overall depth in mm	160 mm
Pane vertical dimensions max.	4,140 x 3,360 mm
Pane horizontal dimensions max.	3,140 x 2,360 mm
Suction (LxW) in mm (Base frame)	1,300 x 780
Suction (LxW) in mm with extension arms	2,140 x 1,360
Tilt / Turn / Lock	90° / 360° / 90° manually
Safety	2-circuit system
Battery Pack	12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)
Storage & Transport	On trolley

For Optionals,
see p. 363



Depth
160 mm



VSG 900 KS - Extra narrow version
Up to 900 kg capacity



VACUUM SUCTION
SYSTEMS

Perfect glazing even behind scaffolding
due to the small depth of only 160 mm!

View all suction systems
from p.354 for a better comparison.

Model	VSG 900 KS (extra flat)
Capacity	900 kg
Suction Cup	12 x T15
Weight	140 kg
Overall depth in mm	160 mm
Pane vertical dimensions max.	4,350 x 3,170 mm
Pane horizontal dimensions max.	3,350 x 2,170 mm
Suction (LxW) in mm (Base frame)	1,300 x 780
Suction (LxW) in mm with extension arms	2,350 x 1,170
Tilt / Turn / Lock	90° / 360° / 90° manually
Safety	2-circuit system
Battery Pack	12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)
Storage & Transport	On trolley

For Optionals,
see p. 363



Depth
160 mm



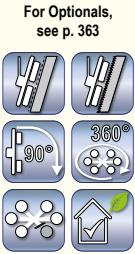
VSG 1000 K H - Up to 1,000 kg capacity



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in action at www.heavydrive.com

View all suction systems
from p.354 for a better comparison

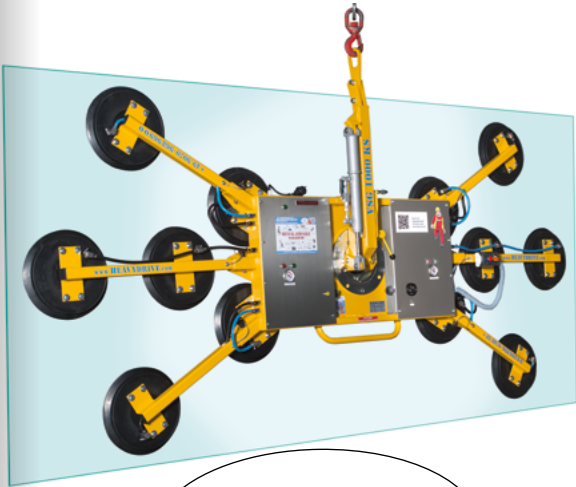
Model	VSG 1000 K H
Capacity	1,000 kg
Suction Cup	14 x T15, individually lockable
Weight	180 kg
Overall depth in mm	380
Pane vertical dimensions max.	3,330 x 3,192 mm
Pane horizontal dimensions max.	2,330 x 2,192 mm
Suction (L x W) in mm (base frame)	1,125 x 862
Suction (LxW) in mm with extension arms	3,330 x 1,192
Tilt / Turn / Lock	90° hydraulically / 360° fully, / 90° manually
Safety	2-circuit system
Battery Pack	12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)
Storage & Transport	On trolley



For Options,
see p. 363

VSG 1000 KS - Extra narrow version

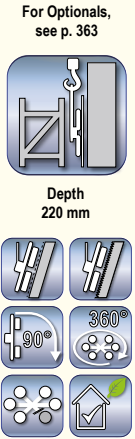
This model is very similar to the 1000 K H model. Its only difference is that it is significantly thinner.



The suction cups can
each be continuously
adjusted!

Improve performance,
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Model	VSG 1000 KS (extra flat)
Capacity	1,000 kg
Suction Cup	14 x T15
Weight	180 kg
Overall depth in mm	220 mm
Pane vertical dimensions max.	4,800 x 3,600 mm
Pane horizontal dimensions max.	3,800 x 2,600 mm
Suction (LxW) in mm (Base frame)	1,500 x 1,500 mm
Suction (LxW) in mm with extension arms	2,800 x 1,600 mm
Tilt / Turn / Lock	90° manually lowering cylinder / 360° fully and manually, 90° lockable
Safety	2-circuit system
Battery Pack	12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)
Storage & Transport	On trolley



For Options,
see p. 363

Vacuum Suction Systems for Medium-Weight Panes
or Faade Elements up to 1,500 kg

VSG 1000 K MH - Up to 1,000 kg capacity



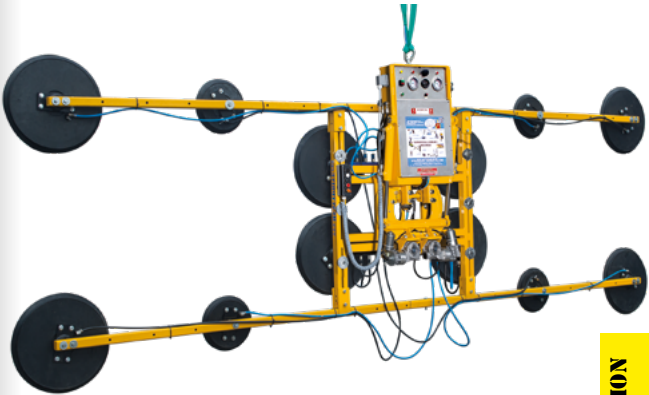
View all suction systems
from p.354 for a better
comparison



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in action at www.heavydrive.com

Model S1	VSG 1000 K MH
Capacity	1,000 kg
Suction Cup	14 x T15, individually lockable
Weight	206 kg
Overall depth in mm	313
Pane vertical dimensions max. in mm	4,998 x 3,290
Pane horizontal dimensions max. in mm	3,998 x 2,290
Suction (L x W) in mm (base frame)	1,363 x 1,290
Suction (LxW) in mm with extension arms	2,998 x 1,290
Tilting / rotation	90° / 360° motorized rotation
Safety	2-circuit system
Battery Pack	12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)
Storage & Transport	On trolley

For Optionals,
see p. 363

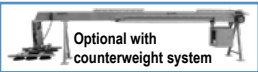


VACUUM SUCTION
SYSTEMS

The suction cups can
each be continuously
adjusted!



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Optional with
counterweight system



Model S1	VSG 1000 K MH 5
Capacity	1,000 kg
Suction Cup	14 x T15, individually lockable
Weight	230 kg
Overall depth in mm	313
Pane vertical dimensions max. in mm	6,900 x 3,740
Pane horizontal dimensions max. in mm	5,900 x 2,740
Suction (LxW) in mm with extension arms	4,900 x 1,740
Suction (L x W) in mm (base frame)	1,363 x 1,290
Tilting / rotation	90° / 360° full rotation / 90° lockable
Safety	2-circuit system
Battery Pack	12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)
Storage & Transport	On trolley

VSG 1200 K H - Up to 1,200 kg capacity

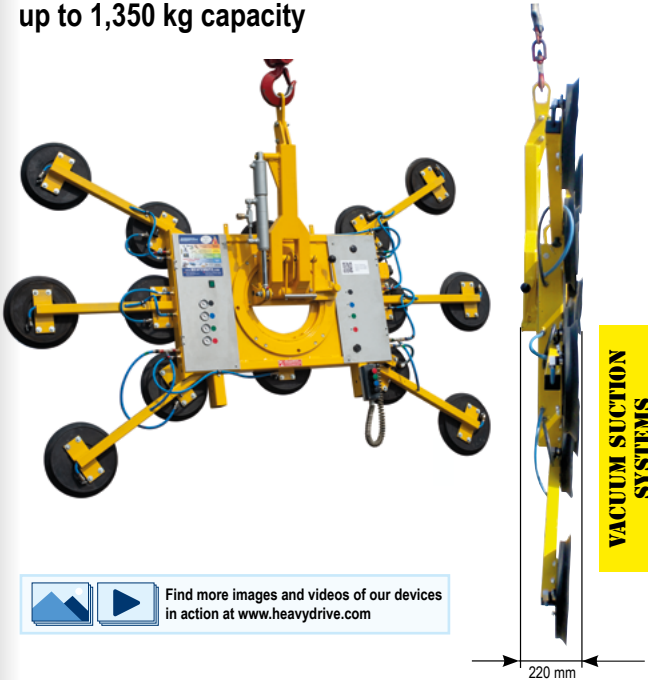


Can be rotated
and tilted by remote control,
either by motor or hydraulically!

No purchase necessary -
rent at a low cost!

Model	VSG 1200 K H	VSG 1200 K MH
Capacity	1,200 kg	
Suction Cup	16 x T15, individually lockable	
Weight	240 kg	
Overall depth in mm	380	
Pane vertical dimensions max.	4,800 x 2,862 mm	
Pane horizontal dimensions max.	3,800 x 1,862 mm	
Suction (L x W) in mm (base frame)	1,125 x 862	
Suction (LxW) in mm with extension arms	2,800 x 862	
Pivoting	90° hydraulically by remote control	
Rotation / locking	360° manually / 90° lockable	360° fully motorised
Safety	2-circuit system	
Battery Pack	12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)	
Storage & Transport	On trolley	

VSG 1350 KS - Extra narrow version
up to 1,350 kg capacity



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in action at www.heavydrive.com

For Optionals,
see p. 363

View all suction systems
from p.354 for a better comparison



Can be conveniently
controlled by a remote
control

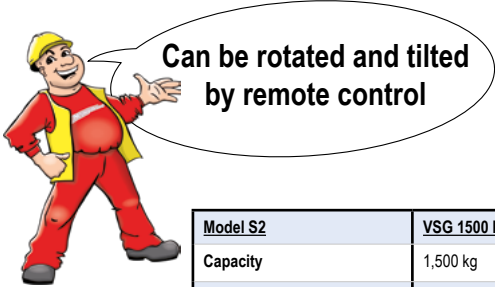
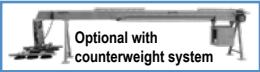


Model	VSG 1350 KS (extra flat)
Capacity	1,350 kg
Suction Cup	14 x T15
Weight	180 kg
Overall depth in mm	220
Pane vertical dimensions max.	4,500 x 3,600 mm
Pane horizontal dimensions max.	3,500 x 2,600 mm
Suction (LxW) in mm (Base frame)	1,500 x 1,500
Suction (LxW) in mm with extension arms	2,500 x 1,600
Tilt / Turn / Lock	90° manually lowering cylinder / 360° continuously and manually, 90° lockable
Safety	4-circuit system
Battery Pack	12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)
Storage & Transport	On trolley

VSG 1500 K MH L
Up to 1,500 kg capacity



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Can be rotated and tilted
by remote control

For Optionals,
see p. 363

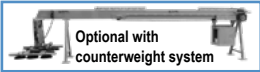
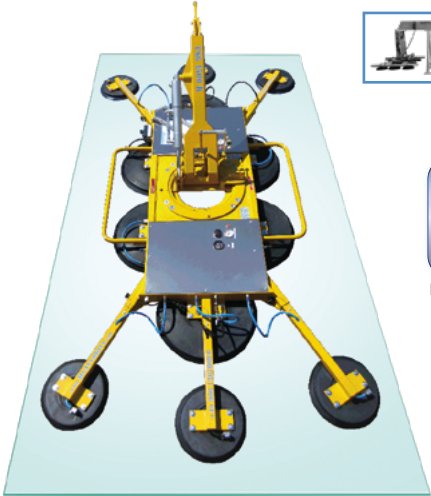


Easy to handle via
remote control



Model S2	VSG 1500 K MH L
Capacity	1,500 kg
Suction Cup	10 x T15 / 4 x T40
Weight	305 kg
Overall depth in mm	380
Pane vertical dimensions max.	6,000 x 3,300 mm
Pane horizontal dimensions max.	5,000 x 2,300 mm
Suction (L x W) in mm (base frame)	1,750 x 1,300
Suction (LxW) in mm with extension arms	4,000 x 1,300
Tilting / rotation	90 ° hydraulically / 360° full motor driven by remote control
Safety	2-circuit system
Battery Pack	12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)
Storage & Transport	On trolley

VSG 1500 KS - Extra narrow version
Up to 1,500 kg capacity



Easy to handle via
remote control

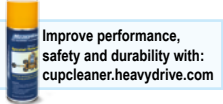
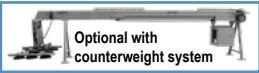


Extra narrow:
With a depth of only 220 mm
this system fits comfortably
between the scaffolding
and the faade!

Model	VSG 1500 KS (extra flat)
Capacity	1,500 kg
Suction Cup	6 x T15 + 6 x T40
Weight	270 kg
Overall depth in mm	220, Extra Narrow!
Pane vertical dimensions max.	4,900 x 3,560 mm
Pane horizontal dimensions max.	3,900 x 2,560 mm
Suction (L x W) in mm (base frame)	2,070 x 1,070
Suction (LxW) in mm with extension arms	2,900 x 1,560
Tilting / rotation	90° manually lowering cylinder / 360° fully and manually, 90° lockable
Safety	2-circuit system
Battery Pack	12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)
Storage & Transport	On trolley

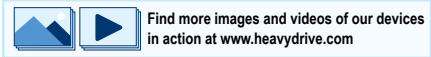
VACUUM SUCTION
SYSTEMS

VSG 2000 K MH L
Up to 2,000 kg capacity



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Both models:
Fully automatically rotatable
via remote control



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View all suction systems from p.354 for a better comparison.

VSG 2000 K MH L 5
Up to 2,000 kg capacity



VACUUM SUCTION SYSTEMS

For Optionals, see p. 363





Easy to handle via remote control



Model S2	VSG 2000 K MH L
Capacity	2,000 kg
Suction Cup	16x T15 + 4 x T40
Weight	305 kg
Overall depth in mm	380
Pane vertical dimensions max.	5,660 x 3,530 mm
Pane horizontal dimensions max.	4,660 x 2,530 mm
Suction (L x W) in mm (base frame)	2,150 x 1,200
Suction (LxW) in mm with extension arms	3,660 x 1,530
Tilting / rotation	90° hydraulic / 360° full motor driven by remote control
Safety	2-circuit system
Battery Pack	12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)
Storage & Transport	On trolley

Model S2	VSG 2000 K MH L 5
Capacity	2,000 kg
Suction Cup	16 x T15 + 4 x T40
Weight	305 kg
Overall depth in mm	380
Pane vertical dimensions max.	7,280 x 4,220 mm
Pane horizontal dimensions max.	6,280 x 3,220 mm
Suction (L x W) in mm (base frame)	2,150 x 1,200
Suction (LxW) in mm with extension arms	5,280 x 2,220
Tilting / rotation	90° hydraulically / 360° continuous motor driven by a remote control
Safety	2-circuit system
Battery Pack	12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)
Storage & Transport	On trolley

VSG 2000 KS - Extra narrow version
Up to 2,000 kg capacity



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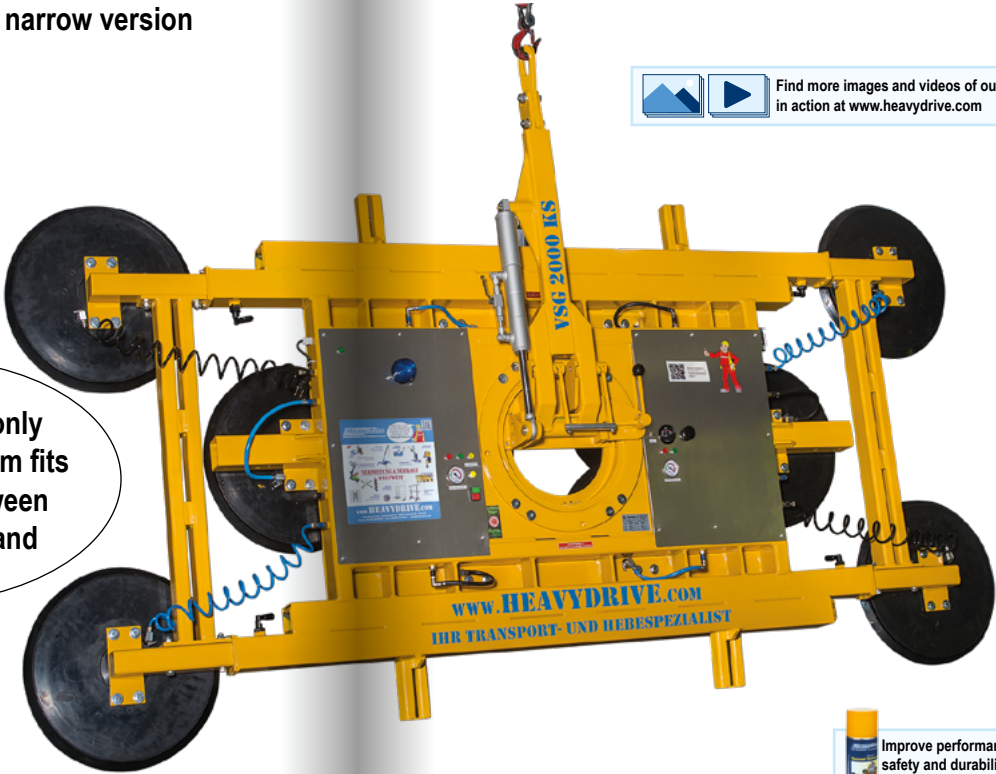


Extra narrow:
With a depth of only 220 mm, this system fits comfortably between the scaffolding and the façade!


For Optionals, see p. 363



VSG 2000 KS in use in Miami, USA



VACUUM SUCTION SYSTEMS

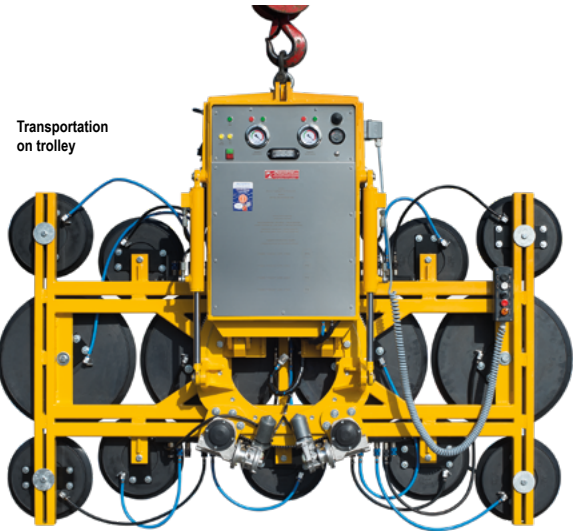


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View all suction systems from p.354 for a better comparison

Model	VSG 2000 KS (extra flat)
Capacity	2,000 kg
Suction Cup	10 x T40, individually lockable
Weight	515 kg
Overall depth in mm	220
Pane vertical dimensions max.	5,630 x 3,576 mm
Pane horizontal dimensions max.	4,630 x 2,576 mm
Suction (L x W) in mm (base frame)	2,070 x 1,576
Suction (LxW) in mm with extension arms	3,630 x 1,576
Tilting / rotation	90° manually with lowering cylinder / 360° continuously and manually, 90° lockable
Safety	2-circuit system
Battery Pack	12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)
Storage & Transport	On trolley

VSG 2000 K MH - Up to 2,000 kg capacity

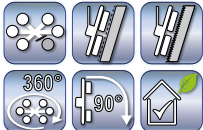


Transportation on trolley

For Options, see p. 363



Easy to handle via wired remote control

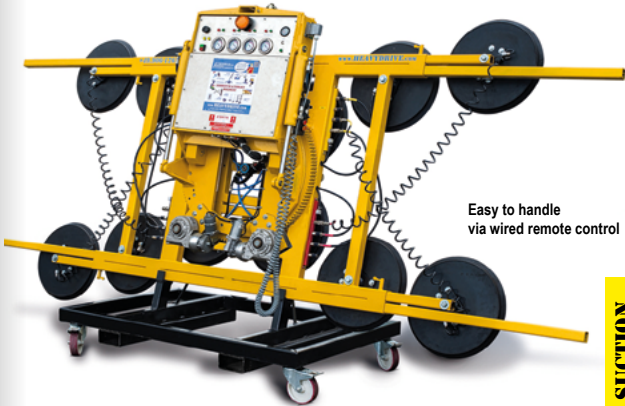


Improve performance, safety and durability with: cupcleaner.heavydrive.com

Optional with counterweight system

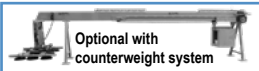
Model S3	VSG 2000 K MH
Capacity	2,000 kg
Suction Cup	10 x T15 + 4 x T40, individually adjustable
Weight	400 kg
Overall depth in mm	380
Pane vertical dimensions max.	6,000 x 3,300 mm
Pane horizontal dimensions max.	4,000 x 1,300 mm
Suction (LxW) in mm (Base frame)	1,750 x 1,300
Suction (LxW) in mm with extension arms	4,000 x 1,300
Tilting / rotation	90° hydraulic / 360° motor driven via remote control
Safety	4-circuit system
Battery Pack	12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)
Storage & Transport	On trolley

VSG 2500 K MH - Vacuum suction system Up to 2,500 kg capacity



Easy to handle via wired remote control

For Options, see p. 363



Optional with counterweight system



Find more images and videos of our devices in action at www.heavydrive.com

View all suction systems from p.354 for a better comparison

Model S3	VSG 2500 K MH
Capacity	2,500 kg
Suction Cup	12 x T40, individually lockable
Weight	600 kg
Overall depth in mm	380
Pane vertical dimensions max.	8,700 x 3,650 mm
Pane horizontal dimensions max.	7,700 x 2,650 mm
Suction (L x W) in mm (base frame)	3,400 x 2,650
Suction (LxW) in mm with extension arms	6,700 x 1,650
Tilting / rotation	90° hydraulic / 360° motor driven via remote control
Safety	4-circuit system
Battery Pack	12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)
Storage & Transport	On trolley

VACUUM SUCTION SYSTEMS

VSG 3000 K MH - Up to 3,500 kg capacity

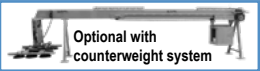


VSG 3500 K MH - Up to 3,500 kg capacity

Glasstec 2018: Mounting of world record pane
measuring 18 m long, 3.2 m tall and 4 tonnes in weight



Perfectly suited for
huge panes up to 8 m long, up to
3.8 m wide and weighing up to 3,500 kg.
Choose the highest safety standards
with a 4-circuit system!



View all suction systems
from p.354 for a better comparison

VACUUM SUCTION
SYSTEMS

Model S3	VSG 3000 K MH
Capacity	3,000 kg
Suction Cup	12 x T40
Weight	680 kg
Overall depth in mm	420 mm
Pane vertical dimensions max.	6,090 x 4,000 mm short arms 7,890 x 4,000 mm long arms
Pane horizontal dimensions max.	5,090 x 3,000 mm short arms 6,890 x 3,000 mm long arms
Suction (LxW) in mm min. (base frame)	2,250 x 1,500
Suction (LxW) in mm max. with extension arms	4,090 x 2,000 short arms 5,890 x 2,000 long arms
Tilting / rotation	90° hydraulically / 360° continuous motor driven by a remote control
Safety	4-circuit system
Battery Pack	2 x 12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)
Storage & Transport	On trolley

Model S3	VSG 3500 K MH
Capacity	3,500 kg
Suction Cup	12 x T40
Weight	680 kg
Overall depth in mm	420 mm
Pane vertical dimensions max.	6,090 x 4,000 mm short arms 7,890 x 4,000 mm long arms
Pane horizontal dimensions max.	5,090 x 3,000 mm short arms 6,890 x 3,000 mm long arms
Suction (LxW) in mm min. (base frame)	2,250 x 1,500
Suction (LxW) in mm max. with extension arms	4,090 x 2,000 short arms 5,890 x 2,000 long arms
Tilting / rotation	90° hydraulically / 360° continuous motor driven by a remote control
Safety	4-circuit system
Battery Pack	2 x 12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)
Storage & Transport	On trolley

For Options, see
p. 363



VSG 3500 K MH - Up to 3,500 kg capacity



VACUUM SUCTION
SYSTEMS

New Headquarters of Real Madrid

For Options, see p. 363



View all suction systems from p.354 for a better comparison.

Model S3	VSG 3500 K MH
Capacity	3,500 kg
Suction Cup	12 x T40
Weight	1,100 kg
Overall depth in mm	380
Pane vertical dimensions max.	11,700 x 3,970 mm
Pane horizontal dimensions max.	9,673 x 2,970 mm
Suction (LxW) in mm (Base frame)	4,143 x 1,970
Suction (L x W) in mm with extension arms	8,673 x 1,970
Tilting / rotation	90° hydraulically / 360° continuously motorised
Safety	4-circuit system
Battery Pack	2 x 12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)
Storage & Transport	on transport rack

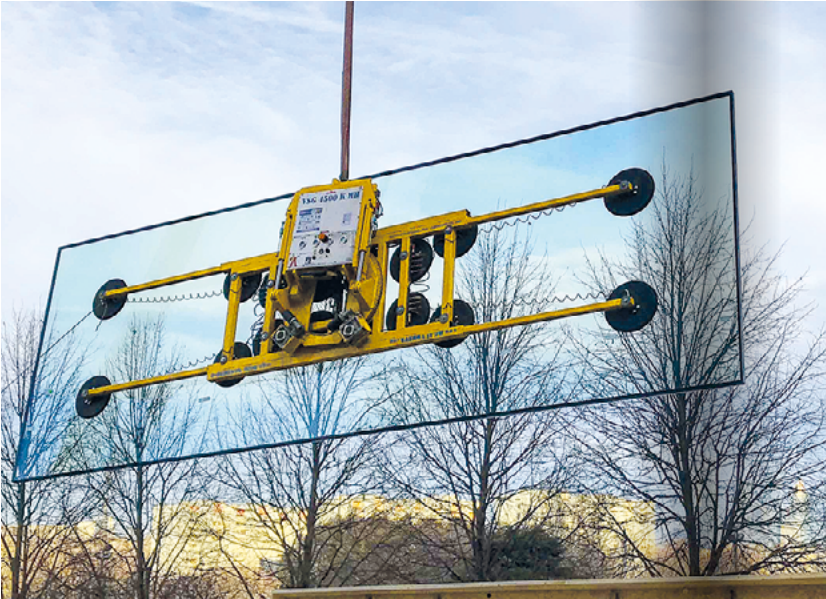


Pavement café in Trieste



Find more images and videos of our devices
in action at www.heavydrive.com

VSG 4500 K MH - Up to 4,500 kg capacity

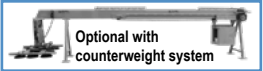


Mounting of 9x3 m-pane SNEGIRI-ECO in Moscow at -10°C



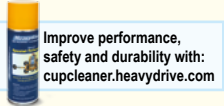
Mounting of 9x3 m-pane SNEGIRI-ECO in Moscow at -10°C

VACUUM SUCTION SYSTEMS



Optional with counterweight system

Perfectly suited for huge panes up to 9 m long, up to 3.8 m wide and weighing up to 4,500 kg. Choose the highest safety standards with a 4-circuit system!



Improve performance, safety and durability with: cupcleaner.heavydrive.com

For Optionals, see p. 363



Easy to handle via remote control



View all suction systems from p.354 for a better comparison.

Model S4	VSG 4500 K MH
Capacity	4,500 kg
Suction Cup	16 x T40
Weight	1,350 kg
Overall depth in mm	550
Pane vertical dimensions max.	9,000 x 3,810 mm
Pane horizontal dimensions max.	8,000 x 2,810 mm
Suction (LxW) in mm (Base frame)	4,300 x 1,810
Suction (LxW) in mm with extension arms	7,000 x 1,810
Tilting / rotation	90° hydraulically / 360° fully motor driven by remote control
Safety	4-circuit system
Battery Pack	2 x 12 V, 3-4 days continuous use, on a single charge (recharging via 220 V plug)
Storage & Transport	on transport rack

Find more images and videos of our devices in action at www.heavydrive.com

VSG 5000 K MH - Up to 5,000 kg capacity



Deployment at a Mormon church in Salt Lake City



Currently
the **BIGGEST SYSTEM** on the market!
Lifts, rotates and pivots panes up to
24 metres in length, 3.2 m wide and weighing
up to 5,000 kg with the highest level of
safety and precision!
24 hour delivery!

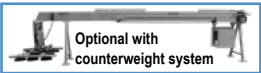


Deployment at a Mormon church in Salt Lake City

VACUUM SUCTION
SYSTEMS



Improve performance,
safety and durability with:
cupcleaner.heavydrive.com



Optional with
counterweight system

View all suction systems from p.354
for a better comparison.

Model S4	VSG 5000 K MH
Capacity (Glass)	5,000 kg
Suction Cup	20 x T40
Weight	2,500 kg
Overall depth in mm	550
Pane vertical dimensions max.	14,073 x 4,200 mm short arms 20,073 x 4,200 mm long arms
Pane horizontal dimensions max.	13,073 x 3,200 mm short arms 19,073 x 3,200 mm long arms
Suction (LxW) in mm (Base frame)	6,123 x 1,900
Suction (L x W) in mm with extension arms	12,073 x 2,200 short arms 18,073 x 2,200 long arms
Tilt / Turn / Lock	90° hydraulically / 360° continuously - motorised
Safety	4-circuit system
Battery Pack	2 x 12 V, 3-4 days continuous use, on a single charge (recharging via 220 V plug)
Storage & Transport	on transport rack

VSG 6000 K MH - Up to 6,000 kg capacity



Model S4	VSG 6000 K MH
Capacity (Glass)	6,000 kg
Suction Cup	20 x T40
Weight	2,500 kg
Overall depth in mm	550
Pane vertical dimensions max.	14,073 x 4,200 mm short arms 20,073 x 4,200 mm long arms
Pane horizontal dimensions max.	13,073 x 3,200 mm short arms 19,073 x 3,200 mm long arms
Suction (LxW) in mm (Base frame)	6,123 x 1,900
Suction (LxW) in mm with extension arms	12,073 x 2,200 short arms 18,073 x 2,200 long arms
Tilt / Turn / Lock	90° hydraulically / 360° continuously motorised
Safety	4-circuit system
Battery Pack	2 x 12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)
Storage & Transport	on transport rack

For Optionals, see p. 363



Easy to handle via remote control



The unit can vertically rotate and tilt glass panes and even completely prefabricated façade elements by 90 degrees via remote control.

This makes it possible, for example, to mount the glass plate flat into the frame.

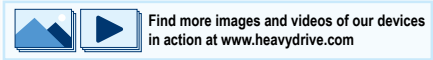


View all suction systems from p.354 for a better comparison.

VSG 8000 K MH - Up to 8,000 kg capacity



Model S5	VSG 8000 K MH
Capacity (Glass)	8,000 kg
Suction cup	32 x T40
Weight	2,700 kg
Overall depth in mm	550
Pane vertical dimensions max.	16,073 x 4,200 mm short arms 22,073 x 4,200 mm long arms
Pane horizontal dimensions max.	15,073 x 3,200 mm short arms 21,073 x 3,200 mm long arms
Suction (LxW) in mm (Base frame)	8,123 x 1,900
Suction (LxW) in mm with extension arms	14,073 x 2,200 short arms 20,073 x 2,200 long arms
Tilt / Turn / Lock	90° hydraulically / 360° continuously motorised
Safety	4-circuit system
Battery Pack	2 x 12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)
Storage & Transport	on transport rack



View all suction systems from p.354 for a better comparison.

For Options, see p. 363

Easy to handle via remote control




VSG 10000 K MH - up to 10,000 kg capacity



VACUUM SUCTION SYSTEMS

View all suction systems from p.354 for a better comparison.

Model S5	VSG 10000 K MH
Capacity (Glass)	10,000 kg
Suction Cup	40 x T40
Weight	3,800 kg
Overall depth in mm	690
Pane vertical dimensions max.	16,073 x 4,200 mm short arms 22,073 x 4,200 mm long arms
Pane horizontal dimensions max.	15,073 x 3,200 mm short arms 21,073 x 3,200 mm long arms
Suction (LxW) in mm (Base frame)	8,123 x 1,900
Suction (LxW) in mm with extension arms	14,073 x 2,200 short arms 20,073 x 2,200 long arms
Tilt / Turn / Lock	90° hydraulically / 360° continuously motorised
Safety	4-circuit system
Battery Pack	2 x 12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)
Storage & Transport	on transport rack



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For Optionals, see p. 363



Easy to handle via remote control



Jumbo panes are the current trend! Heavydrive is constantly expanding its portfolio to meet the highest demands. Now up to 10 t.



VSG 12000 K MH - Up to 12,000 kg capacity



VACUUM SUCTION
SYSTEMS

Model S5	VSG 12.000 K MH
Capacity (Glass)	12,000 kg
Suction Cup	48 x T40
Weight	4,100 kg
Overall depth in mm	690
Pane vertical dimensions max.	16,073 x 4,200 mm short arms 22,073 x 4,200 mm long arms
Pane horizontal dimensions max.	15,073 x 3,200 mm short arms 21,073 x 3,200 mm long arms
Suction (LxW) in mm (Base frame)	8,123 x 1,900
Suction (LxW) in mm with extension arms	14,073 x 2,200 short arms 20,073 x 2,200 long arms
Tilt / Turn / Lock	90° hydraulically / 360° continuously motorised
Safety	4-circuit system
Battery Pack	2 x 12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)
Storage & Transport	on transport rack



View all suction systems from p.354 for a better comparison.

For Optionals, see
p. 363



Easy to handle via
remote control



Architects and planners,
get ready!
Heavydrive offers you
up to 12 tons of load capacity
in terms of glazing.



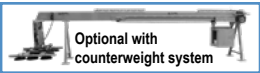
Improve performance,
safety and durability with:
cupcleaner.heavydrive.com

VSG 270 - 1000 KR -
from 270 to 1,000 kg of load capacity

Suction systems for panes weighing from 200 to 1,000 kg for external and internal radii from 450 mm (concave or convex curved and wavy panes).

These systems are adaptable to any pane size.

Adjustable to fit on the pane by slidable and rotatable suction cups and by using different attachment arms



For Optionals, see
p. 363



800 kg
Messe Bau, Munich



VACUUM SUCTION
SYSTEMS

from 450 mm on up
can be suctioned
at the inner or outer radius!

Even wavy panes
are not a problem!



Find more images and videos of our devices
in action at www.heavydrive.com

View all suction systems from p.354 for a better comparison.

Model Series G1	VSG 270/405 PLR	VSG 400 KR	VSG 600 KR	VSG 800 KR	VSG 1000 KR
Capacity	270/ 405 kg	400 kg	600 kg	800 kg	1,000 kg
Suction Cup	4 x T13 / 6 x T13	16 x T5	24 x T5	32 x T5	40 x T5
Weight	34 / 38 kg	220 kg	276 kg	320 kg	420 kg
Overall depth in mm	233	> 380			
Pane vertical/horizontal dimensions max.	2,290 x 1,890 mm	3,200 x 2,600 mm	4,200 x 2,600mm		
Min. Suction (L x W) in mm (base frame)	1,290 x 254	variable up to 1,200 x 1,000	variable up to 1,200 x 1,000		
Max. Suction (L x W) in mm (base frame)	1,770 x 254	variable up to 2,200 x 1,600	variable up to 3,200 x 1,600		
Tilting / rotation	90° / 180°	90° hydraulically / 360° full rotation using remote control			
Safety	2-circuit system	Warning device: dual-circuit vacuum system			
Battery Pack	12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)				
Storage & Transport	Aluminium case	On trolley			

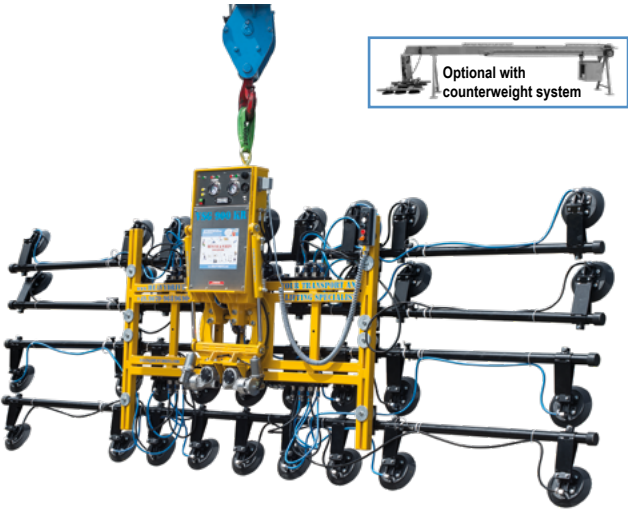
VSG 1000 KR - VSG 1500 KR

Up to 1,500 kg capacity

The system can be used with a sliding suspension eyelet of up to 250 mm!

These systems can also be operated using an adapter plate with a counterweight (see page 198).

Additionally, an optional forklift-shoe adapter can be easily screwed to the counter plate.



View all suction systems from p.354 for a better comparison.

Model Series G2	VSG 1000 KR	VSG 1250 KR	VSG 1500 KR
Capacity	1,000 kg	1,250 kg	1,500 kg
Suction Cup	40 x T5	48 x T5	60 x T5
Weight	456 kg	480 kg	540 kg
Overall depth in mm	> 380		
Pane vertical/horizontal dimensions max. in mm	4,800 x 2,600	4,800 x 2,600	4,800 x 2,600
Min. suction (L x W) in mm (base frame)	variable up to 1,800 x 1,000	variable up to 1,800 x 1,000	variable up to 1,800 x 1,000
Max. Suction (L x W) in mm (base frame)	variable up to 3,800 x 1,600	variable up to 3,800 x 1,600	variable up to 3,800 x 1,600
Tilting / rotation	90° hydraulically / 360° continuously motor driven by a remote control		
Safety	Warning device: dual-circuit vacuum system		
Battery Pack	12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)		
Storage & Transport	On trolley		



Fig. above and below: Edeka branch in Munich



For Options, see p. 363



Fig. above: Rund 4 Wien, Vienna; Placing 500 kg curved panes

For curved panes with inside / outside radius from 450 mm



For Options, see p. 363



Easy to handle via remote control

VACUUM SUCTION SYSTEMS



Heavydrive® provides the optimal suction systems for all the challenges of modern architecture!
24 hours delivery

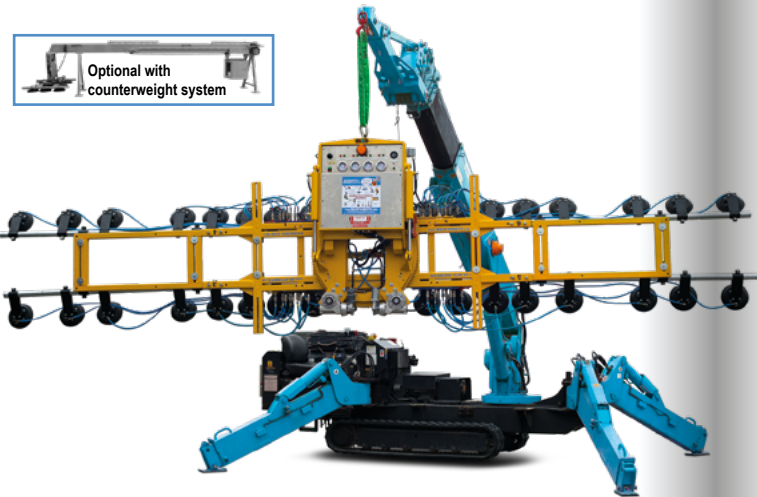
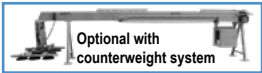


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Find more images and videos of our devices in action at www.heavydrive.com

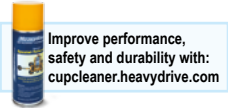
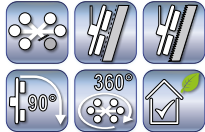
VSG 1500 KR - VSG 3000 KR



For Optionals, see p. 363



Easy to handle via remote control



Flight Chamber Meyer Werft, Papenburg, Germany; VSG 1500 KR



VACUUM SUCTION SYSTEMS



Find more images and videos of our devices in action at www.heavydrive.com

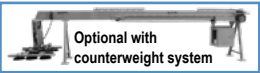
Model Series G3	VSG 1500 KR	VSG 2000 KR	VSG 2.500 KR	VSG 3000 KR
Capacity	1,500 kg	2,000 kg	5,000 kg	3,000 kg
Suction Cup	44 x T5	56 x T5	72 x T5	80 x T5
Weight	640 kg	720 kg	750 kg	780 kg
Overall depth in mm	>426			
Pane vertical / horizontal dimensions max. in mm	7,550 x 3,020	7,550 x 3,020	7,550 x 3,020	7,550 x 3,020
Min. suction (L x W) in mm (base frame)	2,250 x 1,500	2,250 x 1,500	2,250 x 1,500	2,250 x 1,500
Max. suction (L x W) in mm (insertable frame)	6,550 x 2,020	6,550 x 2,020	6,550 x 2,020	6,550 x 2,020
Tilting / rotation	90° hydraulically / 360° fully motor driven by remote control			
Safety	4-circuit system			
Battery Pack	Battery pack (24 V vacuum system with voltage display)			
Storage & Transport	On trolley			

Safe to use even with extremely large panes under difficult conditions! Extractable from the inside and outside radius!



View all suction systems from p.354 for a better comparison.

VSG 3000 KR - VSG 5000 KR



For Optionals, see p. 363




Easy to handle via remote control



Improve performance, safety and durability with: cupcleaner.heavydrive.com

VACUUM SUCTION SYSTEMS

These systems can also be operated using an adapter plate with a counterweight (see page 198).

 Find more images and videos of our devices in action at www.heavydrive.com

View all suction systems from p.354 for a better comparison.

Model Series G 4	VSG 3000 KR	VSG 3500 KR	VSG 4000 KR	VSG 4500 KR	VSG 5000 KR
Capacity (Glass)	3,000 kg	3,500 kg	4,000 kg	4,500 kg	5,000 kg
Suction Cup	80 x T5	96 x T5	108 x T5	126 x T5	136 x T5
Weight	2,528 kg	2,569 kg	2,600 kg	2,647 kg	2,673 kg
Overall depth in mm	> 556				
Pane vertical / horizontal dimensions max. in mm	13,073 x 2,200	13,073 x 2,200	13,073 x 2,200	13,073 x 2,200	13,073 x 2,200
	19,073 x 2,200	19,073 x 2,200	19,073 x 2,200	19,073 x 2,200	19,073 x 2,200
Min. suction (L x W) in mm (base frame)	6,123 x 1,900	6,123 x 1,900	6,123 x 1,900	6,123 x 1,900	6,123 x 1,900
Max. suction (L x W) in mm (short / long extension frames)	12,073 x 2,200	12,073 x 2,200	12,073 x 2,200	12,073 x 2,200	12,073 x 2,200
	18,073 x 2,200	18,073 x 2,200	18,073 x 2,200	18,073 x 2,200	18,073 x 2,200
Tilting / rotation	90° hydraulically / 360° fully motor driven by			remote control	
Safety	4-circuit system				
Battery Pack	Battery pack (24 V vacuum system with			voltage display)	
Storage & Transport	on transport rack				

Safe to use even with extremely large panes under difficult conditions!



Fits easily to inside and outside radius!



Vacuum suction systems for mega-heavy curved panes up to 8,000 kg

VSG 5000 KR - VSG 8000 KR

Shifting the chain hanger eyelets every 250mm possible.
These systems can also be operated using an adapter plate with a counterweight (see page 198).



Find more images and videos of our devices in action at www.heavydrive.com

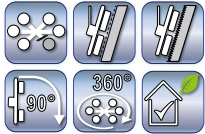


VACUUM SUCTION SYSTEMS

For Options, see p. 363



Easy to handle via remote control



View all suction systems from p.354 for a better comparison.

Model Series G5	VSG 5000 KR	VSG 5500 KR	VSG 6000 KR		VSG 7000 KR	VSG 8000 KR
Capacity (Glass)	5,000 kg	5,500 kg	6,000 kg		7,000 kg	8,000 kg
Suction Cups	136 x T5	152 x T5	160 x T5		188 x T5	216 x T5
Weight	3,793 kg	3,835 kg	3,856 kg		3,928 kg	4,000 kg
Overall depth in mm	> 850				> 850	
Pane vertical / horizontal dimensions max. in mm	15,073 x 2,200 21,073 x 2,200	15,073 x 2,200 21,073 x 2,200	15,073 x 2,200 21,073 x 2,200		15,073 x 2,200 21,073 x 2,200	15,073 x 2,200 21,073 x 2,200
Min. suction (L x W) in mm (base frame)	8,123 x 1,900	8,123 x 1,900	8,123 x 1,900		8,123 x 1,900	8,123 x 1,900
Max. suction (L x W) in mm (short / long extension frames)	14,073 x 2,200 20,073 x 2,200	14,073 x 2,200 20,073 x 2,200	14,073 x 2,200 20,073 x 2,200		14,073 x 2,200 20,073 x 2,200	14,073 x 2,200 20,073 x 2,200
Tilting / rotation	90° hydraulically / 360° continuously				motor driven by remote control	
Security	4-circuit system					
Battery	Battery pack (24 V vacuum system				with voltage display)	
Storage & transportation	on transport rack					

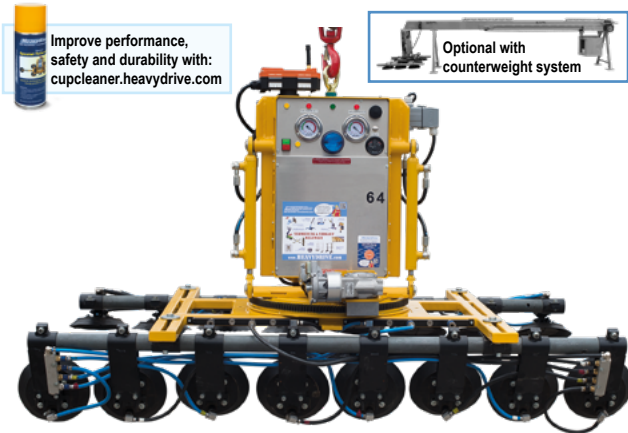
Safe to use even with extremely large panes under difficult conditions!
Shifting the chain hanger eyelets every 250 mm possible.



VSG 270 - 1000 KRSP -
from 270 to 1,000 kg of load capacity

Suction systems for panes weighing from 200 to 1,000 kg with external and internal radii from 450 mm (spherically curved, convex and concave wavy panes).
These systems are adaptable to any pane size.

Adjustable to fit on the pane by slidable and rotatable suction cups and by using different attachment arms



Improve performance, safety and durability with: cupcleaner.heavydrive.com

Optional with counterweight system

For Optionals, see p. 363



Victoriei Office Building in Bucharest / Romania



from 450 mm on up can be suctioned at the inner or outer radius!

Even wavy panes are not a problem!

VACUUM SUCTION SYSTEMS

Find more images and videos of our devices in action at www.heavydrive.com

View all suction systems from p.354 for a better comparison.

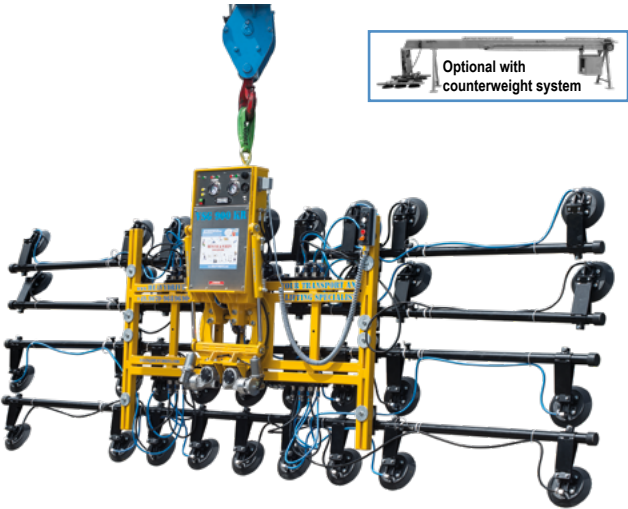
Model Series G1	VSG 270/405 RSP	VSG 400 RSP	VSG 600 RSP	VSG 800 RSP	VSG 1000 RSP
Capacity	270/ 405 kg	400 kg	600 kg	800 kg	1,000 kg
Suction Cup	4 x T13 / 6 x T13	16 x T5	24 x T5	32 x T5	40 x T5
Weight	34 / 38 kg	220 kg	276 kg	320 kg	420 kg
Overall depth in mm	233	> 380			
Pane vertical/horizontal dimensions max.	2,290 x 1,890 mm	3,200 x 2,600 mm	4,200 x 2,600mm		
Min. Suction (L x W) in mm (base frame)	1,290 x 254	variable up to 1,200 x 1,000	variable up to 1,200 x 1,000		
Max. suction (L x W) in mm (base frame)	1,770 x 254	variable up to 2,200 x 1,600	variable up to 3,200 x 1,600		
Tilting / rotation	90° / 180°	90° hydraulically / 360° full rotation using remote control			
Safety	2-circuit system	Warning device: dual-circuit vacuum system			
Battery Pack	12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)				
Storage & Transport	Aluminium case	On trolley			

VSG 1000 KRSP - VSG 1500 KRSP
Up to 1,500 kg capacity

Shifting the chain hanger eyelets every 250mm possible.

These systems can also be operated using an adapter plate with a counterweight (see page 198).

Additionally, an optional forklift-shoe adapter can be easily screwed to the counter plate.



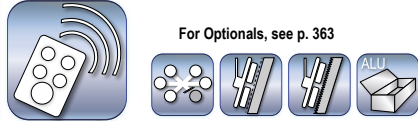
View all suction systems from p.354 for a better comparison.

Model Series G2	VSG 1000 RSP	VSG 1250 RSP	VSG 1500 RSP
Capacity	1,000 kg	1,250 kg	1,500 kg
Suction Cup	40 x T5	48 x T5	60 x T5
Weight	456 kg	480 kg	540 kg
Overall depth in mm	> 380		
Pane vertical/horizontal dimensions max. in mm	4,800 x 2,600	4,800 x 2,600	4,800 x 2,600
Min. suction (L x W) in mm (base frame)	variable up to 1,800 x 1,000	variable up to 1,800 x 1,000	variable up to 1,800 x 1,000
Max. suction (L x W) in mm (base frame)	variable up to 3,800 x 1,600	variable up to 3,800 x 1,600	variable up to 3,800 x 1,600
Tilting / rotation	90° hydraulic / 360° continuous motor driven via remote control		
Safety	Warning device: dual-circuit vacuum system		
Battery Pack	12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)		
Storage & Transport	On trolley		



Easy to handle via remote control

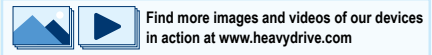
Victoriei Office Building in Bucharest / Romania



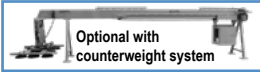
For spherically curved panes
with inside / outside radius from 450 mm

Heavydrive® provides the optimal suction systems for all the challenges of modern architecture!

24 hours delivery



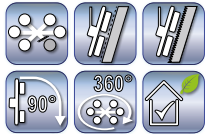
VSG 1500 KRSP - VSG 2000 KRSP



For Optionals, see p. 363



Easy to handle via remote control



View all suction systems from p.354 for a better comparison.

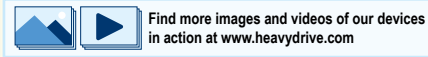
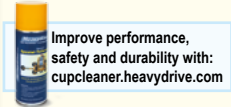
Model Series G3	VSG 1500 RSP	VSG 2000 RSP
Capacity	1,500 kg	2,000 kg
Suction Cup	44 x T5	56 x T5
Weight	640 kg	720 kg
Overall depth in mm	>426	
Pane vertical / horizontal dimensions max. in mm	7,550 x 3,020	7,550 x 3,020
Min. suction (L x W) in mm (base frame)	2,250 x 1,500	2,250 x 1,500
Max. Suction (L x W) in mm (insertable frame)	6,550 x 2,020	6,550 x 2,020
Tilting / rotation	90° hydraulic / 360° continuous motor driven via remote control	
Safety	4-circuit system	
Battery Pack	Battery pack (24 V vacuum system with voltage display)	
Storage & Transport	On trolley	



VACUUM SUCTION SYSTEMS

Victoriei Office Building in Bucharest / Romania
Placing a spherically curved pane, H 4,783 x W 2,762 mm

Safe to use even with spherically curved panes under difficult conditions! Extractable from the inside and outside radius!



VSGW for winter glazing



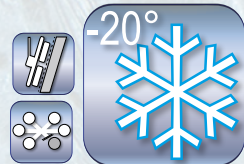
EIB-Europ. Investment-Bank in Luxembourg

Can be used
in temperatures as
low as **-20°C**



Non-Marking suction cups

They leave no traces
on vapour-coated and
anti-reflective panes



For Options, see p. 363

Coated and vapour-coated panes, etc. are sensitive, and thus we have special non-marking suction cups for residue-free work on all our vacuum lifters.

VSGW 450 K - Vacuum suction system for
winter glazing, up to 450 kg of load capacity

Light vacuum suction system for winter glazing in freezing temperatures up to 450 kg. Ideal for small sizes, 1m wide by 1.20m tall. Short suspension supports mount inside the window frame.



Improve performance,
safety and durability with:
cupcleaner.heavydrive.com

View all suction systems from p.354 for a better comparison.

Model	VSGW 450 K
Capacity	450 kg
Suction Cup	6 x T15
Weight	45 kg
Overall depth in mm	200
Pane vertical dimensions max.	3,900 x 2,500 mm
Pane horizontal dimensions max.	1,900 x 1,680 mm
Suction (L x W) in mm (base frame)	900 x 680
Suction (L x B) in mm with extension arms	2,100 x 680
Tilt / Turn / Lock	90° / 360° / 45° manually
Safety	2-circuit system
Battery Pack	12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)
Storage & Transport	On trolley

For Options, see
p. 363



VACUUM SUCTION
SYSTEMS

VSGW 900 KS - Vacuum suction system for
winter glazing, up to 900 kg capacity, extra flat



Improve performance,
safety and durability with:
cupcleaner.heavydrive.com

Perfect glazing, even behind scaffolding, thanks to the ultra
slim structure, only 160 mm deep!

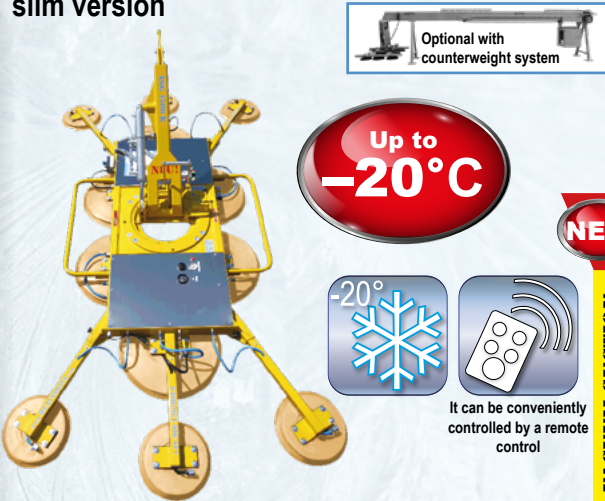
View all suction systems from p.354 for a better comparison.

Model	VSGW 900 KS (Extra Slim)
Capacity	900 kg
Suction Cup	12 x T15
Weight	140 kg
Overall depth in mm	160 mm
Pane vertical dimensions max.	4,350 x 3,170 mm
Pane horizontal dimensions max.	3,350 x 2,170 mm
Suction (L x W) in mm (base frame)	1,300 x 780
Suction (L x W) in mm with extension arms	2,350 x 1,170
Tilt / Turn / Lock	90° / 360° / 90° manually
Safety	2-circuit system
Battery Pack	12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)
Storage & Transport	On trolley

For Optionals, see
p. 363



VSGW 1500 KS - Vacuum suction system
for winter glazing, up to 1,500 kg capacity,
slim version



It can be conveniently
controlled by a remote
control

NEW

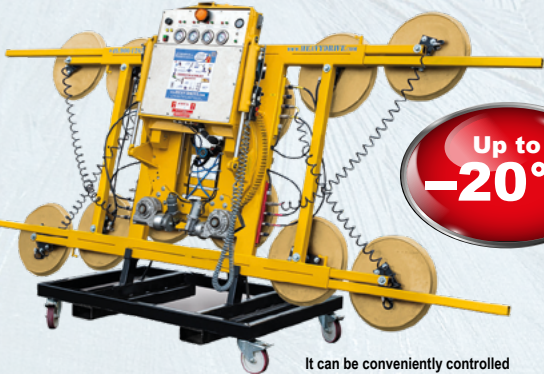
VACUUM SUCTION
SYSTEMS



Extra slim:
At only 220 mm deep, this
device always fits between
the scaffolding and the
façade!

Model	VSGW 1500 KS (Extra Slim)
Capacity	1,500 kg
Suction Cup	6 x T15 + 6 x T40
Weight	270 kg
Overall depth in mm	220, Extra Narrow!
Pane vertical dimensions max.	4,900 x 3,560 mm
Pane horizontal dimensions max.	3,900 x 2,560 mm
Suction (L x W) in mm (base frame)	2,070 x 1,070
Suction (L x W) in mm with extension arms	2,900 x 1,560
Tilt / Turn / Lock	90° manually lowering cylinder / 360° continuously and manually, 90° lockable
Safety	2-circuit system
Battery Pack	12 V, 3-4 days continuous use, on a single charge (recharging via 220 V plug)
Storage & Transport	On trolley

VSGW 2500 K MH - Vacuum suction
system for winter glazing, up to 2,500 kg capacity



Up to
-20°C

It can be conveniently controlled
by a cable remote control

For Options, see p. 339



Improve performance,
safety and durability with:
cupcleaner.heavydrive.com



Find more images and videos of our devices
in action at www.heavydrive.com

View all suction systems from p.354 for a better comparison.

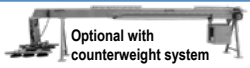
Model S3	VSGW 2500 K MH
Capacity	2,500 kg
Suction Cup	12 x T40, individually lockable
Weight	600 kg
Overall depth in mm	380
Pane vertical dimensions max.	8,700 x 3,650 mm
Pane horizontal dimensions max.	7,700 x 2,650 mm
Suction (L x W) in mm (base frame)	3,400 x 2,650
Suction (LxW) in mm with extension arms	6,700 x 1,650
Tilting / rotation	90° hydraulic / 360° motor driven via remote control
Safety	4-circuit system
Battery Pack	12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)
Storage & Transport	On trolley

VSGW 6000 K MH - Vacuum suction
system for winter glazing, up to 6,000 kg capacity



Up to
-20°C

For Options, see p. 363



NEW

VACUUM SUCTION
SYSTEMS

Model S4	VSGW 6000 K MH
Capacity	6,000 kg
Suction Cup	20 x T40
Weight	2,500 kg
Overall depth in mm	550
Pane vertical dimensions max.	14,073 x 4,200 mm short arms 20,073 x 4,200 mm long arms
Pane horizontal dimensions max.	13,073 x 3,200 mm short arms 19,073 x 3,200 mm long arms
Suction (LxW) in mm (Base frame)	6,123 x 1,900
Suction (LxW) in mm with extension arms	12,073 x 2,200 short arms 18,073 x 2,200 long arms
Tilt / Turn / Lock	90° hydraulically / 360° continuously - motorised
Safety	4-circuit system
Battery Pack	2 x 12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)
Storage & Transport	on transport rack

VSG P for panels up to 24 m



Vacuum suction device for panels made by manufacturers like Brucha, Roma, etc., such as wall panels, roof panels, sheet metal roofing parts, façade parts, sandwich panels, and virtually any sheet-like surface.

With extension arms, the system can support panels up to 24 m wide.

- Fits all common profile dimensions
- All cups can be locked and stacked individually
- All cups can be moved sideways, depending on the panel structure

View all suction systems from p.354 for a better comparison.

Model	VSGP 600 - 8 K for panels up to 8 m		VSGP 600 - 12 K for panels up to 12 m	VSGP 600 - 18 K for panels up to 18 m		VSGP 600 - 24 K for panels up to 24 m
Capacity	600 kg			600 kg		
Suction Cup	12 x T10EW			12 x T10EW		
Weight	180 kg	200 kg		220 kg	240 kg	
Overall depth in mm	233			233		
Panel max. vertical dimensions	8,500 x 3,000 mm	12,500 x 3,000 mm		18,500 x 3,000 mm	24,551 x 3,000 mm	
Panel max. horizontal dimensions	8,500 x 2,000 mm	12,500 x 2,000 mm		18,500 x 2,000 mm	24,551 x 2,000 mm	
Suction (L x W) in mm(base frame)	1,000 x 3,000			1,000 x 3,000		
With extension arms in mm	4,500 x 1,000	5,500 x 1,000		6,500 x 1,000	8,551 x 1,000	
Tilt / Turn / Lock	90° with cylinder / 360° continuous			manually, 90° lockable		
Safety	Warning device, dual-circuit vacuum system					
Battery Pack	Battery pack (12 V vacuum system with voltage display)					
Storage & Transport	Aluminium case					



With special suction cups that fit perfectly between inside the flanges!



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Only 233 mm deep



For uniquely shaped panels, the suction cups can be shut off individually



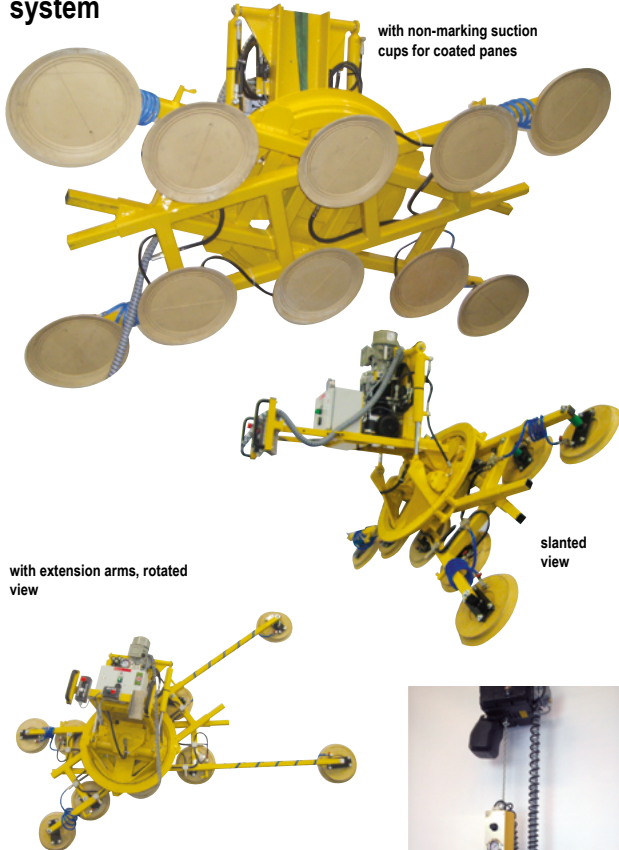
With remote control for suctioning & dismantling (also by radio)



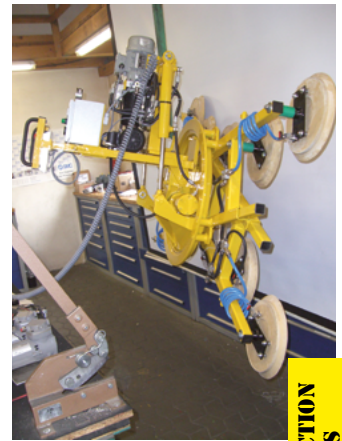
Storage & transport in aluminium case

VACUUM SUCTION SYSTEMS

VSG H up to 5,000 kg capacity, including crane system



VSG 150 KL
indoor vacuum
for small panes



VACUUM SUCTION SYSTEMS

Used for steel and sheet metal plates, windows, doors and any type of glass.

Vacuum suction systems for the indoor assembly of glass panes for window manufacturers, glass refiners, ...

- Lifting and lowering device operated pneumatically, electronically or hydraulically
- Lifting cylinder or chain hoist
- Quick venting through the Venturi nozzle
- Two-hand control
- Remote control
- Fully controllable rigid column lifting unit
- Electronic or hydraulic rotary control
- External power supply 220/380 V or battery mode
- Rotate / swivel device automatically or manually
- Adjustable frame

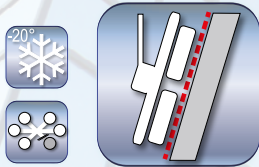


EIB-Europ. Investment-Bank in Luxembourg



Non-Marking suction cups

They leave no traces
on vapour-coated and
anti-reflective panes



For Options, see p. 363

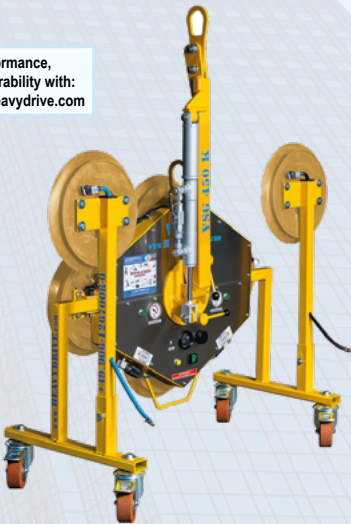
Coated and vapour-coated panes, etc. are sensitive, and thus we have special non-marking suction cups for residue-free work on all our vacuum lifters.

**VSGB 450 K - Vacuum suction system
for vapour-coated panes, up to 450 kg of load
capacity**

Lightweight vacuum suction system for coated and vapour-coated panes up to 450 kg. Ideal for small sizes with 1m wide and 1.20m tall. The short suspension enables mounting in narrow areas.



Improve performance,
safety and durability with:
cupcleaner.heavydrive.com



VACUUM SUCTION
SYSTEMS

View all suction systems from p.354 for a better comparison.

Model	VSGB 450 K
Capacity	450 kg
Suction Cup	6 x T15
Weight	45 kg
Overall depth in mm	200
Pane vertical dimensions max.	3,900 x 2,500 mm
Pane horizontal dimensions max.	1,900 x 1,680 mm
Suction (L x W) in mm (base frame)	900 x 680
Suction (L x B) in mm with extension arms	2,100 x 680
Tilt / Turn / Lock	90° / 360° / 45° manually
Safety	2-circuit system
Battery Pack	12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)
Storage & Transport	On trolley

For Options, see
p. 363



VSGB 900 KS - Vacuum suction system
for vapour-coated panes, up to 900 kg capacity,
extra flat



Perfect glazing, even behind scaffolding, thanks to the ultra
slim structure, only 160 mm deep!

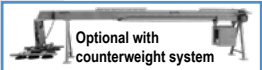
View all suction sys-
tems from p.354 for a
better comparison.

For Optionals, see
p. 363



Model	VSGB 900 KS (extra flat)
Capacity	900 kg
Suction Cup	12 x T15
Weight	140 kg
Overall depth in mm	160 mm
Pane vertical dimensions max.	4,350 x 3,170 mm
Pane horizontal dimensions max.	3,350 x 2,170 mm
Suction (LxW) in mm (Base frame)	1,300 x 780
Suction (LxW) in mm with extension arms	2,350 x 1,170
Tilt / Turn / Lock	90° / 360° / 90° manually
Safety	2-circuit system
Battery Pack	12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)
Storage & Transport	On trolley

VSGB 1500 KS - Vacuum suction system
for vapour-coated panes, up to 1,500 kg capacity,
slim version



Easy to handle via
remote control

NEW

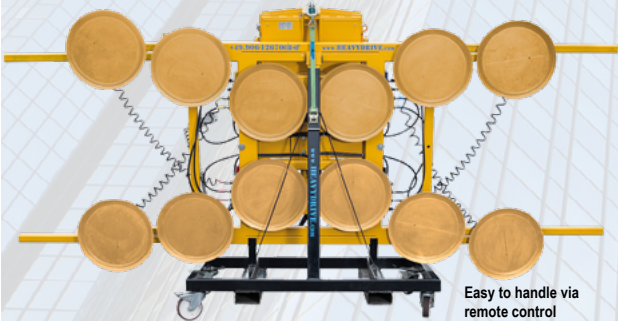
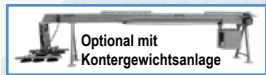
VACUUM SUCTION
SYSTEMS



Extra slim:
At only 220 mm deep, this
device always fits between
the scaffolding and the
façade!

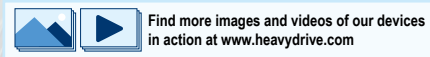
Model	VSGB 1500 KS (extra flat)
Capacity	1,500 kg
Suction Cup	6 x T15 + 6 x T40
Weight	270 kg
Overall depth in mm	220, extra flat!
Pane vertical dimensions max.	4,900 x 3,560 mm
Pane horizontal dimensions max.	3,900 x 2,560 mm
Suction (L x W) in mm (base frame)	2,070 x 1,070
Suction (LxW) in mm with extension arms	2,900 x 1,560
Tilting / rotation	90° manually lowering cylinder / 360° fully and manually, 90° lockable
Safety	2-circuit system
Battery Pack	12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)
Storage & Transport	On trolley

VSGB 2500 K MH - Vacuum suction system
for vapour-coated panes, up to 2,500 kg capacity



Easy to handle via
remote control

For Optionals, see p. 363



View all suction systems from p.354 for a better comparison.

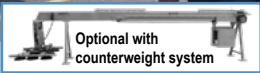
Model S3	VSGB 2500 K MH
Capacity	2,500 kg
Suction Cup	12 x T40, individually lockable
Weight	600 kg
Overall depth in mm	380
Pane vertical dimensions max.	8,700 x 3,650 mm
Pane horizontal dimensions max.	7,700 x 2,650 mm
Suction (L x W) in mm (base frame)	3,400 x 2,650
Suction (LxW) in mm with extension arms	6,700 x 1,650
Tilting / rotation	90° hydraulic / 360° motor driven via remote control
Safety	4-circuit system
Battery Pack	12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)
Storage & Transport	On trolley

VSGB 6000 K MH - Vacuum suction system
for vapour-coated panes, up to 6,000 kg capacity



NEW

VACUUM SUCTION
SYSTEMS



For Optionals, see p. 363



Model S4	VSGB 6000 K MH
Capacity	6,000 kg
Suction Cup	20 x T40
Weight	2,500 kg
Overall depth in mm	550
Pane vertical dimensions max.	14,073 x 4,200 mm short arms 20,073 x 4,200 mm long arms
Pane horizontal dimensions max.	13,073 x 3,200 mm short arms 19,073 x 3,200 mm long arms
Suction (LxW) in mm (Base frame)	6,123 x 1,900
Suction (LxW) in mm with extension arms	12,073 x 2,200 mm short arms 18,073 x 2,200 mm long arms
Tilt / Turn / Lock	90° hydraulically / 360° continuously - motorised
Safety	4-circuit system
Battery Pack	2 x 12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)
Storage & Transport	on transport rack

Vacuum suction systems
for stone and porous surfaces

VSGS for stone and other rough or porous
surfaces

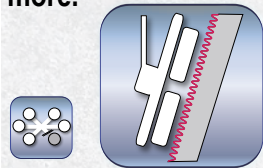


Fig. above: Hypobank Headquarters, Munich;
Fig. below: Tribune Ice Arena, Augsburg



Special cups

for rough surfaces such as dense stone slabs,
plastic sheets, concrete, etched surfaces,
wood panels, screen printing plates and much
more.



For Options, see p. 363

VSGS 450 K - Vacuum suction system
for stone, up to 450 kg of load capacity



Lightweight vacuum suction system for
coated and vapour-coated panes up to
450 kg. Ideal for small sizes with 1 m wide
and 1.20 m tall.

The short suspension enables mounting in
narrow areas.



Improve performance,
safety and durability with:
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VACUUM SUCTION
SYSTEMS

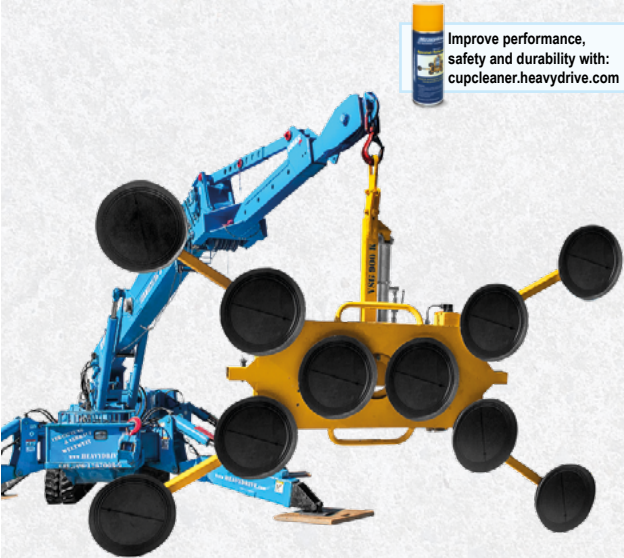
Model	VSGS 450 K
Capacity	450 kg
Suction Cup	6 x T15
Weight	45 kg
Overall depth in mm	200
Pane vertical dimensions max.	3,900 x 2,500 mm
Pane horizontal dimensions max.	1,900 x 1,680 mm
Suction (L x W) in mm (base frame)	900 x 680
Suction (L x B) in mm with extension arms	2,100 x 680
Tilt / Turn / Lock	90° / 360° / 45° manually
Safety	2-circuit system
Battery Pack	12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)
Storage & Transport	On trolley

View all suction sys-
tems from p.354 for a
better comparison.

For Options, see
p. 363



VSGS 900 KS - Vacuum suction system
for stone, up to 900 kg capacity, extra flat



Improve performance,
safety and durability with:
cupcleaner.heavydrive.com

Perfect glazing, even behind scaffolding, thanks to its
ultra slim structure, just 160 mm deep!

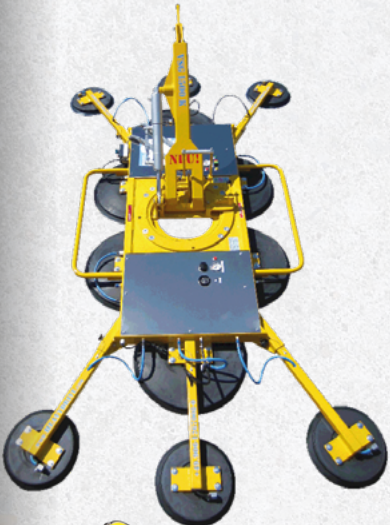
View all suction systems from p.354 for a better comparison.

For Optionals, see
p. 363



Model	VSGS 900 KS (Extra Slim)
Capacity	900 kg
Suction Cup	12 x T15
Weight	140 kg
Overall depth in mm	160 mm
Pane vertical dimensions max.	4,350 x 3,170 mm
Pane horizontal dimensions max.	3,350 x 2,170 mm
Suction (LxW) in mm (Base frame)	1,300 x 780
Suction (LxW) in mm with extension arms	2,350 x 1,170
Tilt / Turn / Lock	90° / 360° / 90° manually
Safety	2-circuit system
Battery Pack	12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)
Storage & Transport	On trolley

VSGS 1500 KS - Vacuum suction system
for stone, up to 1,500 kg capacity, slim version



Optional with
counterweight system



Easy to handle via
remote control

NEW

VACUUM SUCTION
SYSTEMS

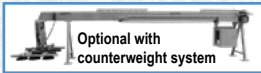


Extra slim:
At only 220 mm deep, this
device always fits between
the scaffolding and the
façade!

Model	VSGS 1500 KS (Extra Slim)
Capacity	1,500 kg
Suction Cup	6 x T15 + 6 x T40
Weight	270 kg
Overall depth in mm	220, Extra Narrow!
Pane vertical dimensions max.	4,900 x 3,560 mm
Pane horizontal dimensions max.	3,900 x 2,560 mm
Suction (L x W) in mm (base frame)	2,070 x 1,070
Suction (LxW) in mm with extension arms	2,900 x 1,560
Tilting / rotation	90° manually lowering cylinder / 360° fully and manually, 90° lockable
Safety	2-circuit system
Battery Pack	12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)
Storage & Transport	On trolley

Vacuum suction systems
for stone and porous surfaces

VSGS 2500 K MH - Vacuum suction system for stone up to 2.500 kg load capacity



Easy to handle
via remote control

For Optionals, see p. 363



Improve performance,
safety and durability with:
cupcleaner.heavydrive.com



Find more images and videos of our devices
in action at www.heavydrive.com

View all suction systems from p.354 for a better comparison.

Model S3	VSGS 2500 K MH
Capacity	2,500 kg
Suction Cup	12 x T40, individually lockable
Weight	600 kg
Overall depth in mm	380
Pane vertical dimensions max.	8,700 x 3,650 mm
Pane horizontal dimensions max.	7,700 x 2,650 mm
Suction (L x W) in mm (base frame)	3,400 x 2,650
Suction (LxW) in mm with extension arms	6,700 x 1,650
Tilting / rotation	90° hydraulic / 360° motor driven via remote control
Safety	4-circuit system
Battery Pack	12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)
Storage & Transport	On trolley

VSGS 6000 K MH - Vacuum suction system for stone, up to 6,000 kg of load capacity



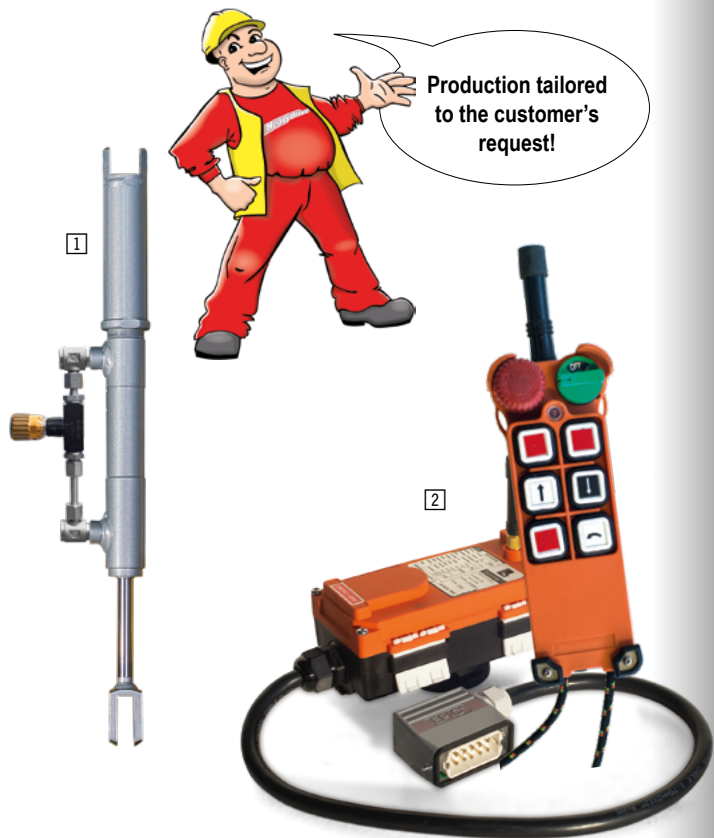
For Optionals, see p. 363



Model S4	VSGS 6000 K MH
Capacity	6,000 kg
Suction Cup	20 x T40
Weight	2,500 kg
Overall depth in mm	550
Pane vertical dimensions max.	14,073 x 4,200 mm short arms 20,073 x 4,200 mm long arms
Pane horizontal dimensions max.	13,073 x 3,200 mm short arms 19,073 x 3,200 mm long arms
Suction (LxW) in mm (Base frame)	6,123 x 1,900
Suction (LxW) in mm with extension arms	12,073 x 2,200 mm short arms 18,073 x 2,200 mm long arms
Tilt / Turn / Lock	90° hydraulic / 360° continuous - motorised
Safety	4-circuit system
Battery Pack	2 x 12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)
Storage & Transport	on transport rack

NEW

VACUUM SUCTION
SYSTEMS



VACUUM SUCTION SYSTEMS

View all suction systems from p.354 for a better comparison.

Accessories	Description.		Use
1 Lowering cylinder	manual hydraulic cylinder for fully adjustable, manual lowering of vacuum-suction systems		All types of equipment with suspension arm, not in conjunction with the short arm.
2 Radio remote control	Radio module that controls all system motor functions with one or more hand transmitters,		All vacuum suction systems
3 Remote control	Remote control with spiral cable and quick-release connector,		All vacuum suction systems
4 Short arm	In tight spaces, especially for small panes or when glazing under lead, it is also ideal as an easy-to-exchange complement to the long arm.		Alternative for systems with normal arm, not in conjunction with a lowering cylinder
5 ISO holders	They protect the panes from slipping when they are hot and connected.		All vacuum suction systems
Further information can be found at www.heavydrive.com			

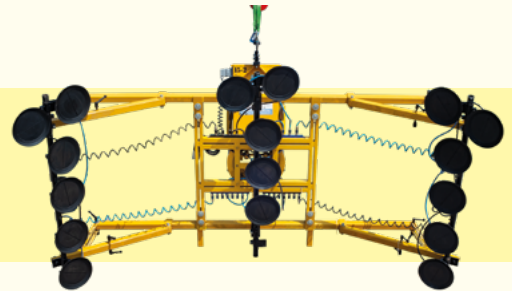
Special systems

to address the special challenges in glass construction

- **VSG ...L for glass fins**
Vacuum suction systems for panes up to 22 m tall

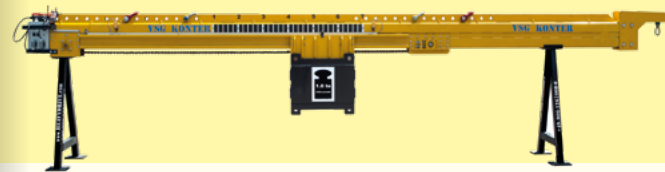


- **VSG...KRQ**
for transversely curved panes
Vacuum suction systems up to 4,000 kg capacity



VACUUM SUCTION SYSTEMS

- **VSG...Konter:** counterweight systems
for vacuum suction systems with
up to 18,000 kg capacity



- **VSGSTU 7-axis manipulator**
with forklift up to 2,000 kg capacity



VSG 450 KL 6 - VSG 600 KL 6
up to 8 m wide

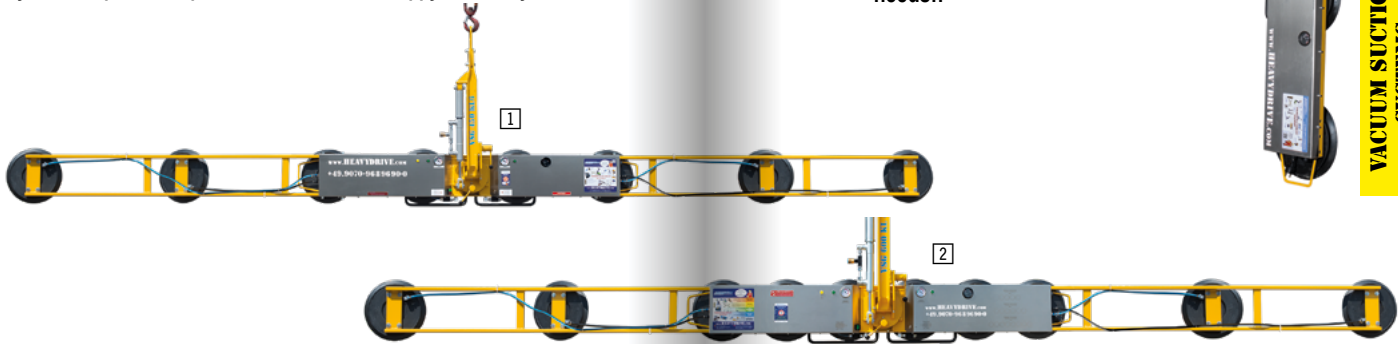
Glass fins—flat, narrow, very tall, glued glass plates—high rigidity makes them ideal replacements for steel, concrete or wooden supports.

Glass exceeds steel and concrete in stability! Therefore, more and more glass fins are used. Special suction systems are required for these extremely long and narrow panes. Heavydrive® provides you these suction systems in different sizes and capacities.

The illustrated system is a special version that is second to none! The frame has a suction length of 2,000 mm and can be extended up to 6 m span with extension arms.

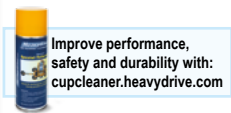
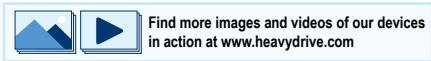
See for yourself!

If you have questions, please ask and we'll be happy to assist you.



View all suction systems from p.354 for a better comparison.

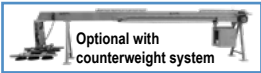
Model L1	1 VSG 450 KL 6	2 VSG 600 KL 6
Capacity	450 kg	600 kg
Suction Cup	6 x T15	10 x T15
Weight	40 kg	56 kg
Overall depth in mm	230	230
Pane vertical dimensions max.	8,000 x 2,300 mm	10,000 x 2,400 mm
Pane horizontal dimensions max.	7,000 x 1,300 mm	9,000 x 1,400 mm
Suction (L x W) in mm (base frame)	3 2,000 x 330	2,000 x 400
With extension arms (LxW) in mm	6,000 x 330	6,000 x 400
Tilting / rotation	90° lowering cylinder / 360° full rotation, 90° lockable	
Safety	Warning device: dual-circuit vacuum system	
Battery Pack	Battery pack (12 V, 3-4 days continuous use, on a single charge (recharging via 220 V plug)	
Transport	Aluminium case	



Special glass fins for panes from 180 mm width can be customized to your needs!!



VACUUM SUCTION SYSTEMS



For Optionals, see p. 363



Ideal for setting glass fins
550 mm wide and 10 m tall



VSG 600 KL 14 - VSG 3500 KL 14
up to 17 m wide

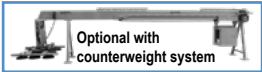
Glass fins—flat, narrow, very tall, glued glass plates—high rigidity makes them ideal replacements for steel, concrete or wooden supports.

Glass exceeds steel and concrete in stability! Therefore, more and more glass fins are used. Special suction systems are required for these extremely long and narrow panes. Heavydrive® provides you these suction systems in different sizes and capacities.

The illustrated system is a special version that is second to none! The frame has a suction length of 4,000 to 6,000 mm and can be extended to 14 m.

See for yourself!

If you have questions, please ask and we'll be happy to assist you.



Project info:

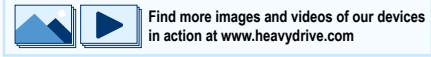
In 2011, the Heavydrive® VSG 1600 KL 10 system was used in Mecca / Saudi Arabia to lift the largest glass fins ever (L 16,670 x W 550 mm and weighing 1600 kg).

The glass fins were then used to stabilise the gigantic, vertical glass plates of the outer façade (L 16,670 mm x W 2,470 mm, weighing 4,500 kg).

Ideal for setting
glass fins
550 mm wide
and 17.35 m tall



VACUUM SUCTION
SYSTEMS



View all suction systems from p.354 for a better comparison.

Even narrower glass fins
up to 180 mm wide and up to 16 m tall
can be handled quickly!

For Options, see p. 363



Model Series L2	VSG 600 KL 14	VSG 1000 KL 14	VSG 1500 KL 14	VSG 2000 KL 14	VSG 2500 KL 14	VSG 3500 KL 14
Capacity	600 kg	1,000 kg	1,500 kg	2,000 kg	2,500 kg	3,500 kg
Suction Cup	8 x T15	12 x T15	16 x T15	20 x T 15	24 x T15	12 x T40
Weight min.	450 kg	450 kg	450 kg	450 kg	450 kg	490 kg
Weight max.	820 kg	832 kg	846 kg	860 kg	880 kg	892 kg
Overall depth in mm	> 420					
Pane dimensions (LxW) L4/6 in mm	7,123 / 9,123 x 330					7,123 / 9,123 x 550
Pane dimensions (LxW) LA9 in mm	12,123 x 330					12,123 x 550
Pane dimensions (LxW) LA12 in mm	15,123 x 330					15,123 x 550
Pane dimensions (LxW) LA14 in mm	17,123 x 330					17,123 x 550
Suction (LxW) (Base frame) L4/6 in mm	4,123/ 6,123 x 350					4,123 / 6,123 x 550
Suction (LxW) LA9 in mm	9,123 x 330					9,123 x 550
Suction (LxW) LA12 in mm	12,123 x 330					12,123 x 550
Suction (LxW) LA14 in mm	14,123 x 330					14,123 x 550
Tilting / rotation	90° hydraulically / 360° continuously motor driven by a remote control					
Safety	4-circuit system					
Battery Pack	Battery pack (24 V vacuum system with voltage display)					
Storage & Transport	on transport rack					

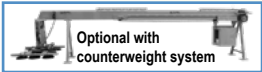
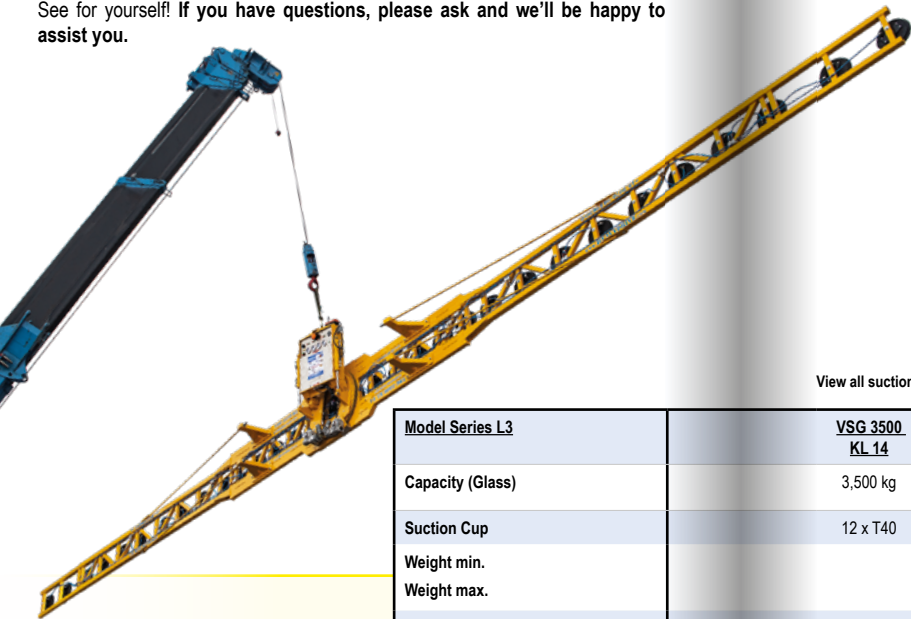
VSG 3500 KL 14 - VSG 6000 KL 14 up to 22 m wide

Glass fins—flat, narrow, very tall, glued glass plates—high rigidity makes them ideal replacements for steel, concrete or wooden supports.

Glass exceeds steel and concrete in stability! Therefore, more and more glass fins are used. Special suction systems are required for these extremely long and narrow panes. Heavydrive® provides these suction systems in different sizes and capacities.

The illustrated system is a special version that is second to none! The frame has a suction length of 6,000 mm and can be extended up to 14 m.

See for yourself! If you have questions, please ask and we'll be happy to assist you.



For Optionals, see p. 363



Current project info:

The Heavydrive®- VSG 5000 KL 14 system , was used to lift the largest glass fins in the world at the Lakhta Centre St. Petersburg / Russia (L 18,670 x W 550 mm, weighing 5,000 kg).

The slanted glass fins serve as load-bearing columns in the façade corner of the new GAZPROM headquarters. The bonded glass fin is a static load-bearing element.

Ideal for setting glass fins up to 550 mm wide and 22 m tall

Improve performance, safety and durability with: cupcleaner.heavydrive.com

Find more images and videos of our devices in action at www.heavydrive.com

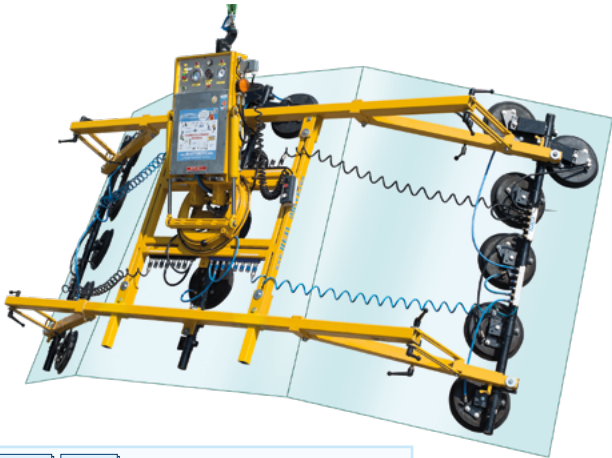
VACUUM SUCTION SYSTEMS

View all suction systems from p.354 for a better comparison.

Model Series L3	VSG 3500 KL 14	VSG 4000 KL 14	VSG 4500 KL 14	VSG 5000 KL 14	VSG 6000 KL 14	VSG 7000 KL 14
Capacity (Glass)	3,500 kg	4,000 kg	4,500 kg	5,000 kg	6,000 kg	7,000 kg
Suction Cup	12 x T40	16 x T40	16 x T40	20 x T40	20 x T40	24 x T40
Weight min.	1,300 kg					
Weight max.	2,000 kg					
Overall depth in mm	> 550					
Pane dimensions (LxW) L4/6 in mm	7,123 / 9,123 x 550					
Pane dimensions (LxW) LA9 in mm	12,270 x 550					
Pane dimensions (LxW) LA12 in mm	15,270 x 550					
Pane dimensions (LxW) LA14 in mm	19,270 x 550					
Suction (LxW)	4,550 / 6,550 x 550					
(Base frame) L4/6 in mm						
Suction (LxW) LA9 in mm	9,270 x 550					
Suction (LxW) LA12 in mm	12,270 x 550					
Suction (LxW) LA14 in mm	14,270 x 550					
Tilting / rotation	90° hydraulically / 360° continuously motor driven by a remote control					
Safety	4-circuit system					
Battery Pack	Battery pack (24 V vacuum system with voltage display)					
Storage & Transport	on transport rack					

VSG 450 - 1200 KRQ -
for transversely curved panes up to 1,200 kg
(pane is curved over the short side)

The VSG -KRQ systems are predominantly used for curved balustrade railings, curved aquarium screens in zoos, curved demarcation panes in showrooms and animal parks, as well as arched bridges. The stability results from the multi-bonded VSG sheets with a very flat deflection of > 4,000 mm.



 Find more images and videos of our devices in action at www.heavydrive.com

View all suction systems from p.354 for a better comparison.

Model Q1	VSG 450 KRQ	VSG 750 KRQ	VSG 1000 KRQ	VSG 1200 KRQ
Capacity	450 kg	750 kg	1,000 kg	1,200 kg
Suction Cup	10 x T15	12 x T15	14 x T15	16 x T15
Weight	250 kg	270 kg	300 kg	315 kg
Radius in mm	> 4000			
Overall depth	depending on the bend radius			
Max. vertical pane dimensions (LxW)	7,000 x 3,500 mm			
Max. horizontal pane dimensions	6,000 x 2,500 mm			
Suction (L x W) in mm (base frame)	4,000 x 1,500			
with extension arms	6,000 x 1,500			
Tilting / rotation	90° hydraulically / 360° manually, 90 ° lockable			
Safety	Warning device: dual-circuit vacuum system			
Battery Pack	Battery pack (12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)			
Transport	On trolley			



Suitable for max.
pane dimensions of
L 7,000 x H 2,500 mm



Hampton Court Palace,
Molesey, UK



VACUUM SUCTION
SYSTEMS



Improve performance,
safety and durability with:
cupcleaner.heavydrive.com

Suction radius
at least 4 m outer radius,
4-6 m suction width
extendible



VSG 1200 - 2500 KRQ -
for transversely curved panes up to 2,500 kg (pane

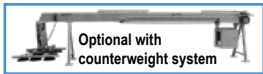
is curved over the short side)



The VSG -KRQ systems are predominantly used for curved balustrade railings, curved aquarium screens in zoos, curved glass panel walls for show-rooms, viewing platforms and animal parks as barriers for protecting people.

The stability results from the multi-bonded VSG sheets with a very flat deflection of > 4,000 mm.

Fig. on the left: Glasstec 2018, Düsseldorf:
Suction systems used for the production of this glass pane were delivered.



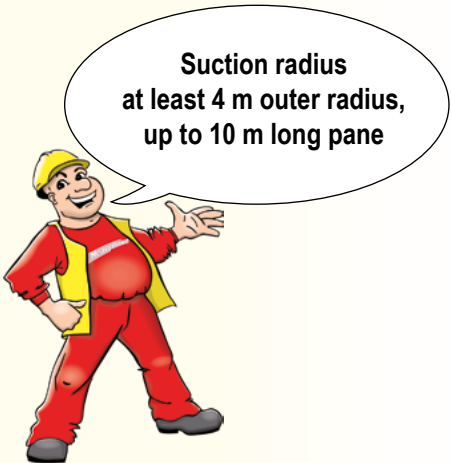
Suitable for max. pane dimensions of
L 10,000 x W 3,200 mm

VACUUM SUCTION
SYSTEMS

Model Q2	VSG 1200 KRQ	VSG 1500 KRQ	VSG 2000 KRQ	VSG 2500 KRQ
Capacity	1,200 kg	1,500 kg	2,000 kg	2,500 kg
Suction Cup	16 x T15	16 x T15	20 x T15	24 x T15
Weight	680 kg	730 kg	750 kg	1,350 kg
Radius in mm	> 4000			
Overall depth in mm	> 380 - depending on the bend radius			
Max. vertical pane dimensions (LxW) in mm	12,673 x 4,500 mm			
Max. horizontal pane dimensions (LxW) in mm	11,673 x 3,500 mm			
Suction (L x W) in mm (base frame)	4,000 x 2,200			
With extension arms	10,673 x 2,500			
Tilting / rotation	90° hydraulically / 360° fully motor driven by a remote control			
Safety	Warning device: dual-circuit vacuum system			
Battery Pack	Battery pack (2 x 12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)			
Transport	On trolley / transport rack			



Find more images and videos of our devices in action at www.heavydrive.com



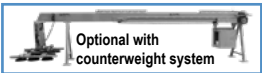
VSG 2500 - 4000 KRQ -
for transversely curved panes up to 4,000 kg (pane

is curved over the short side)



The VSG -KRQ systems are predominantly used for curved balustrade railings, curved aquarium screens in zoos, curved glass panel walls for showrooms, viewing platforms and animal parks as barriers for protecting people.

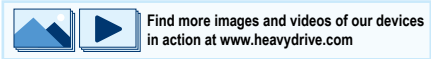
The stability results from the multi-bonded VSG sheets with a very flat deflection of > 4,000 mm.



Suitable for max. pane dimensions of
L 20,000 x W 4,500 mm

VACUUM SUCTION
SYSTEMS

Model LQ3	VSG 2500 KRQ	VSG 3000 KRQ	VSG 3.500 KRQ	VSG 4000 KRQ
Capacity	2,500 kg	3,000 kg	3,500 kg	4,000 kg
Suction Cup	24 x T15	28 x T15	32 x T15	36 x T15
Weight	2,700 kg	2,900 kg	3,200 kg	3,350 kg
Radius in mm	> 4,000			
Overall depth in mm	> 550 - depending on the bend radius			
Max. vertical pane dimensions (LxW) in mm	14,073 x 4,200 mm short arms 20,073 x 4,200 mm long arms			
Max. horizontal pane dimensions (LxW) in mm	13,073 x 3,200 mm short arms 19,073 x 3,200 mm long arms			
Suction (L x W) in mm (base frame)	6,540 x 2,200			
with extension arms	12,073 x 2,200 short arms 18,073 x 2,200 long arms			
Tilting / rotation	90° hydraulically / 360° fully motor driven by remote control			
Safety	Warning device: dual-circuit vacuum system			
Battery Pack	Battery pack (2 x 12 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)			
Transport	on transport rack			



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safety and durability with:
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VSG Counterweight

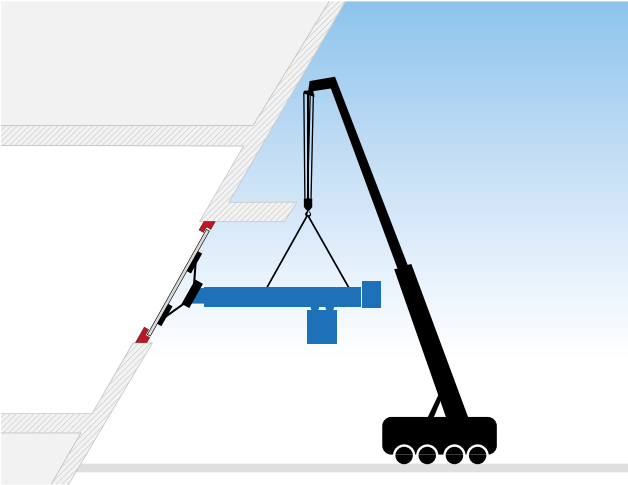
Safe installation of the pane in a vertical façade without additional support from the counterweight beams saves both personnel and time

The suctioned glass pane is inserted vertically into the proper position on the façade. By applying the counterweight, the pane is pressed into its optimal installation position and can be placed on the glass supports with millimetre precision.

The maximum capacity of the counterweight system is the maximum weight of the glass or other material.

Here, the weight of the vacuum suction system or other clamping frames up to 2500 kg is already deducted!

This applies from the point of 3 m overhang. The 3-meter overhang applies from the front edge of the suction plate



Find more images and videos of our devices in action at www.heavydrive.com

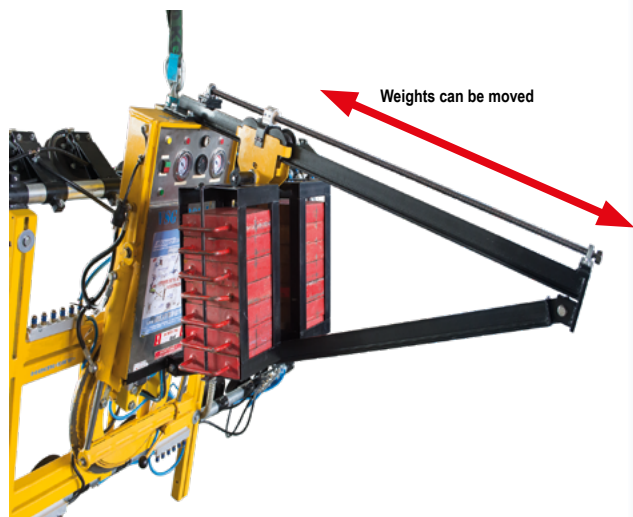
Lakhta Centre in St. Petersburg, conference building in front of the Lakhta Tower



The specially developed counterweight beams in use



VSG VSG 500 Konter-1.2



Heavy panes need no longer be pivoted by hand into a frame.

Heavydrive offers the ideal solution: the pivot aid. Directly mounted onto the suction system, the pivot aid enables panes to be tilted precisely to the millimetre with very little effort.

By offsetting the weight of the pane, it can be positioned vertically or aligned perpendicular to the lower edge.



Model	VSG 300 Konter	VSG 500 Konter
Load capacity (only Glass or other material)	500 kg	1,000 kg
Length in mm	1,200 mm	
Dead weight including counterweight	290 kg	430 kg
Suction Systems	S1 / Q1 / G1	S2 / Q2 / G2

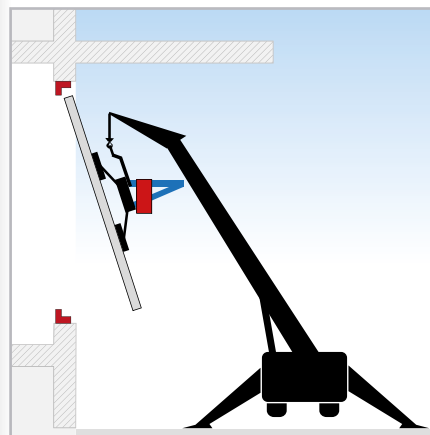


Fig. 1:
When mounted to the suction system, the pane will always be tilted forwards.

In this position, it is not possible to safely lift the pane into the façade opening without causing damage!

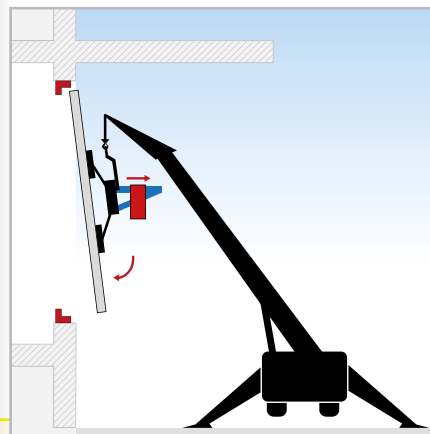


Fig. 2:
Offsetting the weight of the pane means it can be tilted into vertical position.

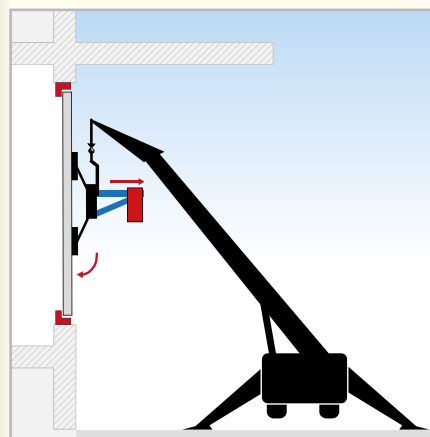


Fig. 3:
By offsetting the weight further, the now vertical pane is placed exactly to the millimetre.

VACUUM SUCTION
SYSTEMS

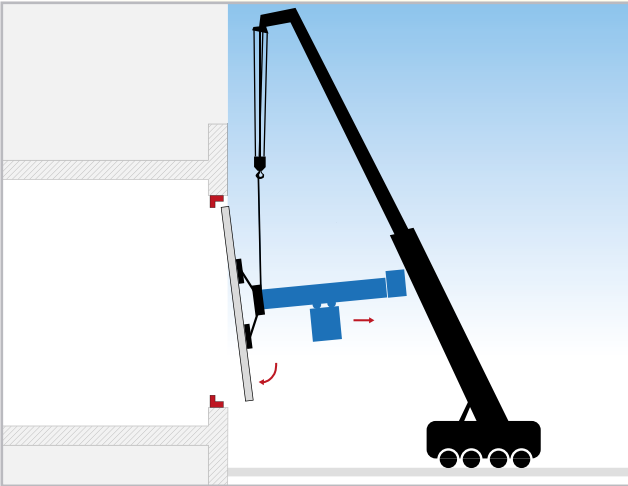
VSG 500 /1000 Konter-2.5 OV

There are different mounting options depending on the construction site situation:



Option 1: no overhang

Chains are mounted directly onto the suction system body
500 kg / 1,000 kg balancing weight possible up to S3/Q3/G3



VSG 500 /1000 Konter-2.5 V

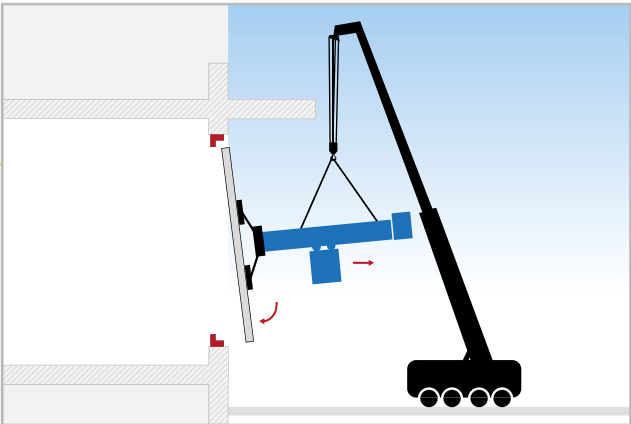
Mounting as a counterweight with two anchor points in order to manoeuvre the pane under an overhang: up to 2,000kg



VACUUM SUCTION SYSTEMS

Option 2: overhang of up to 500 mm

Four chains are mounted directly onto counterweight traverse
500 kg / 1,000 kg balancing weight possible up to S3/Q3/G3



Model	VSG 500 /1000 Konter-2.5 OV	VSG 500 Konter-2.5 V
Variation	OV	V
Load capacity	500 kg	1.000 kg
Length in mm	2.500	
Dead weight including counterweight	750 kg	1.250 kg
Suction systems	S3 / Q3 / G3	

VSG Konter up to 3,500 kg capacity
for VSG 1000 -3500 single beam



Secure mounting of the pane under protrusions up to 3.0 m.

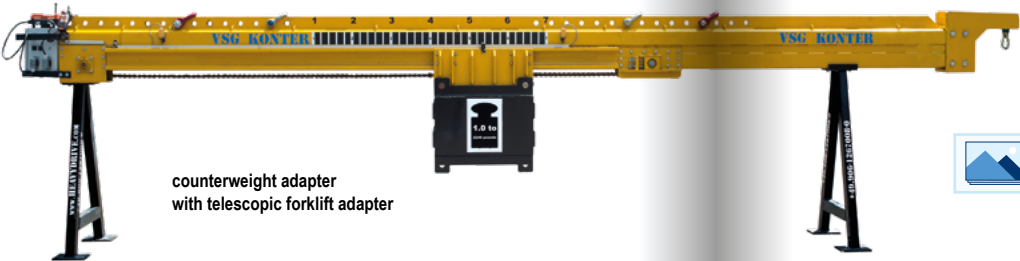
The suctioned glass pane is inserted vertically into the proper position on the façade. The suctioned glass can be tilted forward or backward, depending on the installation situation.

Fine position adjustment is done by radio remote control. The system can be attached to any construction crane, tower crane, loading crane or mobile crane.



The crossbeam is suspended by a 4-strand chain suspension on the crane hook. The connection of the suction system with the crossbeam takes place at the construction site.

The proper suction system can be selected from the VSG product group.

VACUUM SUCTION
SYSTEMS



counterweight adapter
with telescopic forklift adapter



Find more images and videos of our devices
in action at www.heavydrive.com

Model	VSG 500 Konter	VSG 1000 Konter	VSG 1500 Konter	VSG 2000 Konter	VSG 3000 Konter	VSG 3500 Konter
Capacity	500 kg	1,000 kg	1,500 kg	2,000 kg	3,000 kg	3,500 kg
Length in m	4 / 6					
Weight including counterweight	1,600 kg	2,100 kg	2,600 kg	3,100 kg	4,100 kg	4,600 kg
Chain system	4-point chain suspension					
Adaptation of add-on devices	Connection with SWS adapter up to VSG 3500 K MH in addition, each suction system can be freely hung on a swivel hook adapter					
Building overhang depth	up to 3,000 mm					

VSG Konter 3500 Up to 7,000 kg Capacity for VSG 3500 - 7000

Secure mounting of the pane under protrusions up to 3.0 m.

The suctioned glass pane is inserted vertically into the proper position on the façade. The suctioned glass can be tilted forward or backward, depending on the installation situation. Fine position adjustment is done by radio remote control.

The system can be attached to any construction crane, tower crane, loading crane or mobile crane.

The crossbeam is suspended by a 4-strand chain suspension on the crane hook.

The connection of the suction system with the crossbeam takes place at the construction site.

The proper suction system can be selected from the VSG product group.



VACUUM SUCTION SYSTEMS



Model	VSG 3500 Konter	VSG 4000 Konter	VSG 4500 Konter	VSG 5000 Konter	VSG 6000 Konter	VSG 7000 Konter
Capacity (Glass)	3,500 kg	4,000 kg	4,500 kg	5,000 kg	6,000 kg	7,000 kg
Length in m	6					
Weight including counterweight	5,700 kg	6,300 kg	6,800 kg	7,000 kg	8,400 kg	8,400 kg
Chain system	4-point chain suspension					
Adaptation of add-on devices	Connection with SWS adapter up to VSG 6000 K MH In addition, each suction system or hoisting strap can be				for series S 3-4 / Q 3-4 / G 3-4 freely hung on a swivel hook adapter	
Building overhang depth	Up to 3,000 mm					

Special assemblies connect to the steel beam:

Other subframes can also be connected to the crossbeam to lift customer-specific façade elements to the proper position on the building with millimetre precision.

VSG Konter 7,000 up to 16,000 kg capacity for VSG 7000 - 16000



Secure pane mounting under protrusions up to 6.0 m.

The suctioned glass pane is inserted vertically into the proper position on the façade. The suctioned glass can be tilted forward or backward, depending on the installation situation.


Fine position adjustment is done by radio remote control. The system can be attached to any construction crane, tower crane, loading crane or mobile crane.

The crossbeam is suspended by a 4-strand chain suspension on the crane hook. The connection of the suction system with the crossbeam takes place at the construction site.

The proper suction system can be selected from the VSG product group.

Special assemblies connect to the crossbeam:

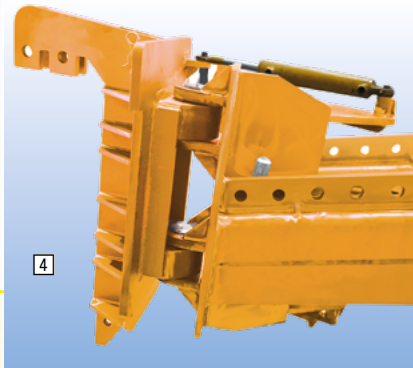
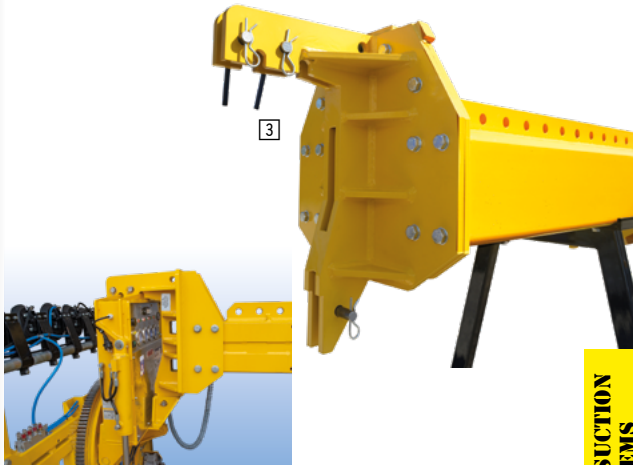
Other subframes can also be connected to the crossbeam to lift customer-specific façade elements to the proper position on the building with millimetre precision.

 Find more images and videos of our devices in action at www.heavydrive.com

VACUUM SUCTION SYSTEMS

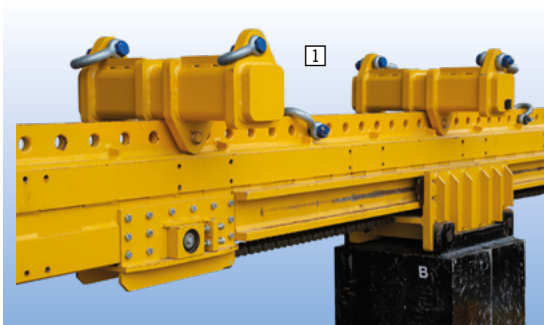


Model	VSG 7000 Konter	VSG 9000 Konter	VSG 10000 Konter	VSG 12000 Konter	VSG 14000 Konter	VSG 16000 Konter
Capacity (Glass)	7,000 kg	9,000 kg	10,000 kg	12,000 kg	14,000 kg	16,000 kg
Length in m	12			12		
Weight including counterweight	11,480 kg	13,480 kg	14,480 kg	16,480 kg	18,480 kg	20,480 kg
Chain system	4-point chain suspension			4-point chain suspension		
Adaptation of add-on devices	Connection with SWS adapter In addition, each suction system or			up to VSG 6000 K MH for series S 3-5 / Q 3-5 / G 3-5 hoisting strap can be freely hung on a swivel hook adapter		
Building overhang depth	up to 6,000 mm			up to 6,000 mm		



VACUUM SUCTION
SYSTEMS

Accessories	Description	Use
1 Hook adapter	Adapter for single crossbeam with swivel hooks up to 3.5 capacity	All suction systems with swivel hooks, other materials
2 Angle adapter ET / DT	Angle adapter for single crossbeam and double crossbeams to insert components or glass panes with an angle up to 30° outwards or overhead	All suction systems S1-5 / Q 1-5 / G 1-5
3 SWS straight adapter ET / DT	The quick-change system SWS is connected to the suction system or customer-specific design in 3 minutes with three secured locking pins	All suction systems S1-5 / Q 1-5 / G 1-5
4 Side-swivel adapter ET / DT	The side swivel adapter allows glass panes to be inserted with a maximum angle of 45° to the left / right.	All suction systems S1-5 / Q 1-5 / G 1-5




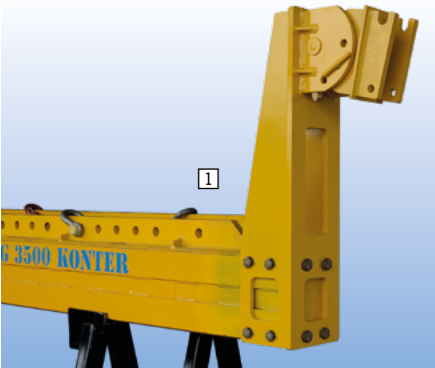
VACUUM SUCTION SYSTEMS

Accessories	Description	Use
1 4-point holder ET	Load distribution on crossbeams for 4-point chain suspension	All suction systems S1-5 / Q 1-5 / G 1-5, other materials
2 2-compartment ET counterweight carrier	Carrier body for single crossbeam with 2-compartment holder	All suction systems S1-5 / Q 1-5 / G 1-5, other materials
3 3-compartment ET counterweight carrier	Carrier body for single crossbeam with 3-compartment holder	All suction systems S1-5 / Q 1-5 / G 1-5, other materials
4 3-compartment DT counterweight carrier	Carrier body for double crossbeam 3-compartment holder	All suction systems S1-5 / Q 1-5 / G 1-5, other materials
5 6-compartment SDT counterweight carrier	Carrier body for double crossbeam 6-compartment holder	All suction systems S1-5 / Q 1-5 / G 1-5, other materials



VACUUM SUCTION
SYSTEMS

 Find more images and videos of our devices
in action at www.heavydrive.com



Accessories	Description	Use
<div>1</div> Cranked Manipulator Adapter ETGM	Adapter for single crossbeam to accommodate 3-axis VSGU 600 K overhead manipulator for up to 600 kg capacity, adjustable angle 0° / 30° / 45° with top or bottom cranking options	All suction systems S1 / Q 1 / G 1
<div>2</div> Single crossbeam straight manipulator adapter ETMA	Adapter for single crossbeam to accommodate 3-axis overhead manipulator from VSGU 300 K to VSG 1600 K for up to 1,600 kg capacity	All suction systems S1-5 / Q 1-5 / G 1-5



THE ALL-ROUNDER FOR EVERYONE



Optional:
Radio remote control



Another 4 axes are provided by telescopic forklifts: Merlo, Manitou, Hiab, Cramer etc.



Find more images and videos of our devices in action at www.heavydrive.com



7-axis manipulator with remote control to accommodate using an indoor or all-terrain telescopic forklift.

The manipulator can be mounted very easily by placing the forklift in the forklift pockets at the bottom of the unit or by using the automatic forklift hook. The axes can be controlled by a single person by a radio remote control.

Once secured, it will be ready to go.

The correct suction system for the manipulator is determined in advance with our technicians.



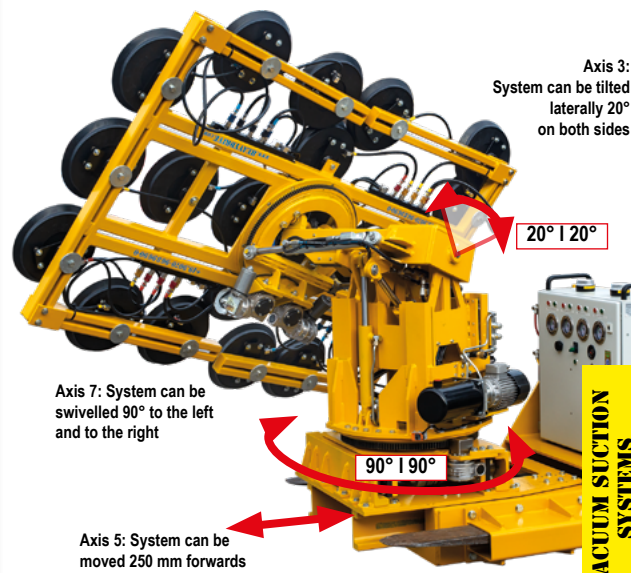
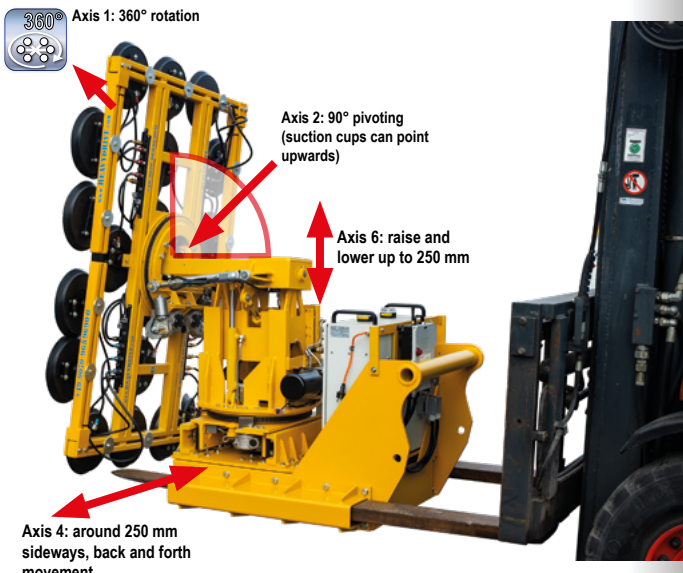
7-axis manipulator
with radio remote control
to hold with an indoor or
all-terrain telescopic forklift
For rent or for sale!



Capricorn-Bridge,
Duesseldorf „Medienhafen“, Germany



VACUUM SUCTION
SYSTEMS



Model	VSG STU 500 K	VSG STU 1000 K	VSG STU 1500 K	VSG STU 2000 K
1st Axis:	VSG suction system motorised full 360° turning			
2nd Axis:	VSG suction system hydraulic pivoting 0-100°, 0° horizontal to 90° vertical with an extra 10°			
3rd Axis:	Hydraulic sideways tilting 20° to the left / 20° to the right to compensate for the lateral tilt of the telescopic forklift			
4th Axis:	Side-shift hydraulic movement left / right 250 mm			
5th Axis:	Hydraulic forward / backward movement of the suction manipulator 250mm			
6th Axis:	Hydraulic raising / lowering of the manipulator by 250 mm			
7th Axis	Manipulator rotating tower 90° to the left or 90° to the right for lateral transport, e.g. through gates or side glazing			
Weight in kg	1,000			
Operation	all axes can be moved simultaneously with radio remote control			
Battery driven	24 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)			
Storage & Transport	loaded with forklift			
Connection to telescopic lift truck manual	Forklift pockets on the side of the device, mechanically secured by screws			
Connection to telescopic lift truck automatic	Placement into fork lifter hook, hydraulically screwed			
Transport dimensions in mm	L 2,050 x W 1,200 x H 1,600 with suction frame, basic unit H 1,000			
Deepest over-head suction size	unbeatable 1,130 mm above ground			



Find more images and videos of our devices in action at www.heavydrive.com

Suction frame Model S2	VSG 2000 K MH L
Capacity	2,000 kg
Suction Cup	20 x T15
Max. vertical pane dimensions	5,660 x 3,530 mm
Max. horizontal pane dimensions	4,660 x 2,530 mm
Suction (L x W) in mm (base frame)	2,150 x 1,200
Suction (LxW) in mm with extension arms	3,660 x 1,530
Safety	4-circuit system
Battery Pack	24 V, 3-4 days continuous use, without recharging (recharging via 220 V plug)

VHS - Up to 57 - 79 kg capacity

VHS 204 P

Can be used in temperatures as low as -15°C

- Suction plate: Flat, DM 204 mm
- Execution: Plastic ABS
- Suitable for flat, non-porous surfaces
- Also with special suction cups for rough surfaces



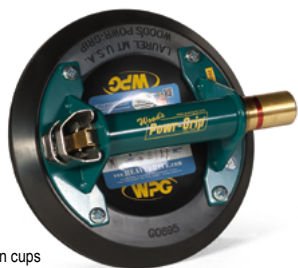
Also with special suction cups for rough surfaces



Max.
57
kg

VHS 204 AL

Light and sturdy!



- Suction plate: Flat, DM 204 mm
- Execution: Metal
- Also with special suction cups for rough surfaces



Max.
57
kg



including protective case

VHS 254 AL

For curved panes!

- Suction plate: concave, DM 254 mm
- Execution: Metal
- Load capacity: 79 kg
- Suitable for curved loads R > 330 mm
- Suitable for uneven surfaces
- Also with special suction cups for rough surfaces



Max.
79
kg
capacity

including protective case

VHS 204 PS

For structured glass!



Max.
57
kg
capacity

- Suction plate: Flat, DM 204 mm
- Execution: Metal
- Also with special suction cups for rough surfaces



VACUUM SUCTION SYSTEMS

Special
price offers
all the time !!!

www.heavydrive.com

Only the best
from the market
leader!!

General features:

- Safe handling
- Suction on smooth surfaces
- Red-Line indicator warns the user of possible vacuum loss
- Release valve lever allows for quick and complete release of the material to be lifted
- Refilling without removing the hand suction cup
- Delivered in protective storage box
- Up to 57 - 79 Kg Capacity



with practical,
sturdy protective case

Heavydrive® Special cup cleaner

The best care for your suction pads.

Thoroughly cleans without leaving a residue.

Clean surfaces and suction pads are vital in order to be able to install panes safely and smoothly. The Heavydrive® special suction pad cleaner is a thorough, residue-free cleaning solution for the suction pads on our vacuum suction devices.



It even enhances grip and increases the service life of the pads.

Based on our expertise gained from years of experience in glass assembly and more than a thousand Heavydrive suction pads in use worldwide, we have developed a special cleaning fluid that thoroughly **cleans suction pads and improves grip at the same time.**

Forget about glass cleaners, detergents or spirits that actually diminish the load-bearing capacity of the pads!



Instructions for use: Spray liberally over the entire vertical surface to be cleaned.

There is no need to leave the cleaner to act.



Clean immediately with a sponge and then dry completely with a lint-free, absorbent cloth. Repeat as required.

Regular cleaning with the Heavydrive special suction pad cleaner increases the service life of suction pads. Because they are not cleaned and maintained properly, the load bearing capacity of more than half of all suction pads decreases before the date specified by the manufacturer. This can be prevented with regular cleaning using the Heavydrive special suction pad cleaner.

Glass protective corners

The protective corners are attached to the pane corners. The two half-shells of the glass corner protectors are clamped with a knob.

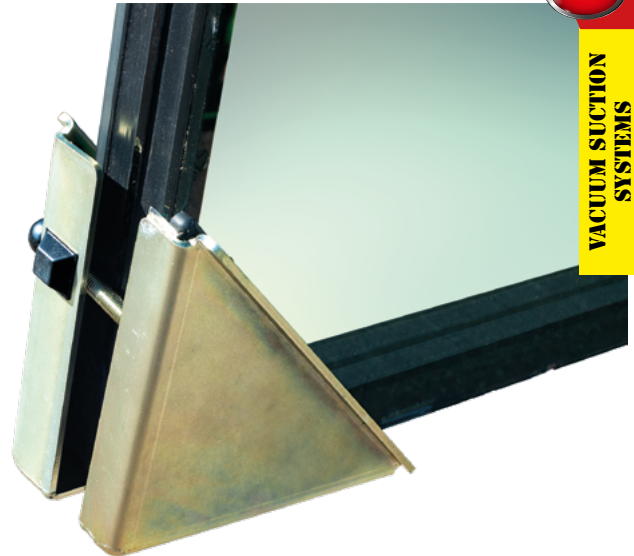
Glass panes can then be easily parked on level ground.

Long panes can also be turned over the corner into the vertical position. The protective corners are ideal for flipping from long to short edges or vice versa. The glass corner is completely protected, preventing any breakage.

The corner is available with in opening widths of 30 mm / 60 mm / 90 mm!

NEW

**VACUUM SUCTION
SYSTEMS**





Here, you can see our first HDL model in 2006 at the University of Darmstadt



Hypo-Bank building in Bregenz 2008



Working at the Bundestag in Berlin 2007

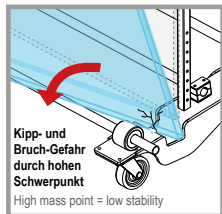


GLASS TRANSPORT
WAGON

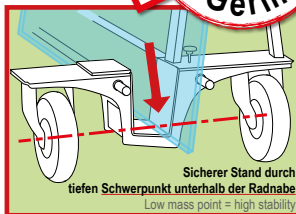
HDL Glass Transport Wagon "Air" with pneumatic tyres

Original

Entwickler und Hersteller • developer and producer



Kipp- und
Bruch-Gefahr
durch hohen
Schwerpunkt
High mass point = low stability



Sicherer Stand durch
tiefen Schwerpunkt unterhalb der Radnabe
Low mass point = high stability

- Small and robust

HDL 250 A in 2 clamp widths
Up to 250 kg capacity

- Compact to transport several window elements

HDL 400 BA and SA up to 400 kg capacity

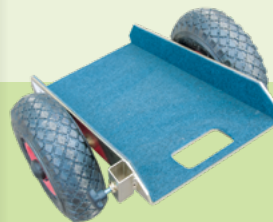
- Diverse and adaptable

HDL 600 A can be extended up to 2 m.
Up to 600 kg capacity

- Ideal for use off-road and on solid ground
- Highly shock-free transport
- For transporting panes and windows up to 2,400 mm tall
- The mobile assistant for all builders
- Ideal for transporting 1–2 windows at once



GLASS TRANSPORT
WAGON



HDL Glass Transport Wagon "Air"
with pneumatic tyres

ERW 280 - up to 280 kg capacity
adjustable height from 230 to 610 mm



This handy helper is **small and robust** for transporting glass up to 280 kg. **Pneumatic tyres** with 130 mm ground clearance that drives easily and safely over uneven ground on construction sites.

Optimally suited for moving **window parts over long distances and curbs**.
By **adjusting the depth of the suction holder**, the glass pane is held in place behind the soffit, and the frame remains undamaged.



4 cm adjustable depth.
By adjusting the depth of the suction holder, the glass pane is held in place behind the soffit. The frame remains undamaged.



Find an overview of all our glass transport wagons from p.224



A super small assistant
which fits in every
crate or car.
Incl. robust anti slip
fixture!
Store Delivery



Find more images and videos of our devices
in action at www.heavydrive.com

Model	ERW 280
Capacity	280 kg
Weight	12 kg
Material	Yellow chromate steel
Operation	Single operator
Max. pane dimensions in mm	L 1,500 x H 1,500
Min. pane dimensions in mm	L 400 x H 400
Dimensions in mm	L 230 x W 280 x H 980
Flange distance in mm	W 130 x L 240
Wheel Diameter	280 mm, pneumatic tyres
Ground clearance of pane	230 mm up to 610 mm, adjustable height
Suction cups for load securing	Ø 210 mm, depth adjustable up to 40 mm
Deployment	Can be driven on terrain
Delivery format	Cardboard box

HDL Glass Transport Wagon "Air" with pneumatic tyres

HDL 250 A - capacity up to 250 kg
in 2 clamp widths: up to 60 mm or up to 95 mm

For transporting glass panes of up to 250 kg and 95 mm thickness. With pneumatic tyres and 130 mm ground clearance, it is also safe and easy to drive over bumpy building sites.

Major advantage: The glass pane or cargo is automatically clamped by its own weight. It cannot slip.

It is best to use 2 pieces, so that the edges of long glass panes are not damaged when tilted

To get a quote for a pair, call now!



secure hold and stable direction via clamping jaws

HDL 300 A - Up to 300 kg capacity

This handy helper is small and robust for transporting glass panes weighing up to 300 kg and up to 150 mm thick. Air tyre with 130 mm ground clearance that drives easily and safely over uneven ground on construction sites.

It is best to use 2 pieces so that the edges of long glass panes are not damaged when tilting.

We offer a discount when you buy a pair.



A mobile assistant for panes up to 300 kg



A super small assistant which fits in every crate or car. Incl. robust anti slip fixture!

Store Delivery

GLASS TRANSPORT WAGON

Model	HDL 250 KSA	HDL 250 KBA
Capacity	250 kg	
Weight	6 kg	
Material	Coated blue steel	
Operation	Single operator	
Max. pane dimensions in mm	L 3,000 x H 1,500	
Min. pane dimensions in mm	L 400 x H 1,500	
Dimensions in mm	L 300 x W 305 x H 300	
Flange distance in mm	L 300 x W up to 60	L 300 x W up to 95
Wheel Diameter	260 mm, pneumatic tyres	
Ground clearance of pane	130 mm	
Deployment	Can be driven on terrain	
Delivery format	Cardboard box	

Find an overview of all our glass transport wagons from p.353

Model	HDL 300 A
Capacity	300 kg
Weight	7 kg
Material	Coated blue steel
Operation	Single operator
Max. pane dimensions in mm	L 2,500 x H 1,500
Min. pane dimensions in mm	L 400 x H 1,500
Dimensions in mm	L 500 x W 380 x H 260
Flange distance in mm	L500 x W 150
Wheel Diameter	260 mm, pneumatic tyres
Ground clearance of pane	150 mm
Deployment	Can be driven on terrain
Delivery format	Cardboard box

HDL Glass Transport Wagon "Air" with pneumatic tyres

HDL 350 BAD - Up to 350 kg capacity, broad

The new HDL 350 BAD with 350 kg load capacity and only 255 mm usable width makes it possible to transport several light window parts at the same time. With an additional guide rod or grab pole with protective handle, you can push or pull window parts over a curb. This pole can also be used as a parking aid. In addition, each wagon has a transport protection pad and a one-person handle for easy carrying after completion of work.

Major advantage:

Through its triangular steering, changing the direction is very quick. That makes this all-rounder extremely manoeuvrable.



255 mm
usable width

Find more images and videos of our devices in action at www.heavydrive.com



The handlebar, protective handle and parking aid are perfect for 1-person operation! 24 hours delivery

Also available with handlebar



NEW

GLASS TRANSPORT WAGON

Find an overview of all our glass transport wagons from p.353

Model	HDL 350 BAD
Capacity	350 kg
Weight	6 kg
Material	Yellow chromate steel
Operation	Single operator
Max. pane dimensions in mm	L 2,500 x H 1,500
Min. pane dimensions in mm	L 400 x H 1,500
Dimensions in mm	L 500 x W 460 x H 260
Flange distance in mm	L 500 x W 255
Wheel Diameter	260 mm, pneumatic tyres
Ground clearance of pane	140 mm
Deployment	Can be driven on terrain
Delivery format	Cardboard box



With up to 350 kg cargo capacity and 255 mm usable width, it enables the transport of several lightweight window parts together.

HDL Glass Transport Wagon "Air" with pneumatic tyres

HDL 400 SA - Up to 400 kg capacity, narrow

The new HDL 400 SA with a capacity of 400 kg and a usable width of only 155 mm makes it possible to transport several light window parts at the same time. With an additional guide rod or grab pole with a protective handle, window parts can be pushed or pulled over kerbsides. This rod can also be used for safe placement. In addition, each wagon is equipped with a protective cover and a handle for one-man operation after the work is complete.



155 mm usable width

We offer a discount when you buy a pair.

The handlebar, protective handle and parking aid are perfect for 1-person operation!
24 hours delivery

HDL 400 BA - Up to 400 kg capacity, broad

The new HDL 400 BA with a cargo capacity of 400 kg is comparable to the HDL 400 SA in terms of its features. However, with its fabulous usable width of 255 mm, it is optimally suitable for the transport of even thicker glass panes.



We offer a discount when you buy a pair.

255 mm usable width

With a cargo capacity of up to 400 kg and 255 mm of usable width, several light window parts may be transported at the same time.



GLASS TRANSPORT WAGON

Both transport wagons are also available with the handlebars

Find an overview of all our glass transport wagons from p.329

Model	HDL 400 SA
Capacity	400 kg
Weight	6 kg
Material	Yellow chromate steel
Operation	Single operator
Max. pane dimensions in mm	L 2,500 x H 1,500
Min. pane dimensions in mm	L 400 x H 1,500
Dimensions in mm	L 500 x W 360 x H 260
Flange distance in mm	L 500 x W 155
Wheel Diameter	260 mm, pneumatic tyres
Ground clearance of pane	150 mm
Deployment	Can be driven on terrain
Delivery format	Cardboard box

Model	HDL 400 BA
Capacity	400 kg
Weight	6 kg
Material	Yellow chromate steel
Operation	Single operator
Max. pane dimensions in mm	L 2,500 x H 1,500
Min. pane dimensions in mm	L 400 x H 1,500
Dimensions in mm	L 500 x W 460 x H 260
Flange distance in mm	L500 x W 255
Wheel Diameter	260 mm, pneumatic tyres
Ground clearance of pane	150 mm
Deployment	Can be driven on terrain
Delivery format	Cardboard box

HDL Glass Transport Wagon "Air" with pneumatic tyres

HDL 400 A - Up to 400 kg capacity

For panes and panels up to 400 kg, this 1-axle model is even more convenient than the less expensive HDL 400.

A faultless construction and pane tipping safeguard makes it easy to manoeuvre this wagon and the pane in a comfortable working position while keeping sight of approaching danger points.

Major advantage: Cargo can be parked unattended

With pneumatic tyres and 140mm ground clearance, it is also safe and easy to drive over bumpy building sites.



Find an overview of all our glass transport wagons from p.353

Model	HDL 400 A
Capacity	400 kg
Weight	20 kg
Material	Painted blue steel
Operation	Single operator
Max. pane dimensions in mm	L 2,500 x H 1,800
Min. pane dimensions in mm	L 500 x H 1,500
Dimensions in mm	L 500 x W 680 x H 1,450
Flange distance in mm	W 200 x L 500
Wheel Diameter	260 mm, pneumatic tyres
Ground clearance of pane	140 mm
Locking device for securing the load	500 mm adjustable height mounting bracket
Deployment	Can be driven on terrain
Delivery format	Cardboard box

HDL 500 TA - Heavy tandem wagon with a capacity of up to 500 kg



Due to its safe 4-point base, the product guarantees a very stable position and shock absorption during transportation on uneven construction sites.
24 hour delivery



NEW

GLASS TRANSPORT WAGON

The new HDL 500 TA with a capacity of 500 kg is equipped with tandem wheels. Due to its safe 4-point base, the product guarantees a very stable position and shock absorption during transportation on uneven construction sites. This 95 cm-long wagon can also be delivered with a steering and pulling rod, as well as a secure rubber grip.

Model	HDL 500 TA
Capacity	500 kg
Weight	21 kg
Material	Yellow chromate steel
Operation	Single operator
Max. pane dimensions in mm	L 2,500 x H 1,500
Min. pane dimensions in mm	L 400 x H 1,500
Dimensions in mm	L 950 x W 490 x H 250
Flange distance in mm	W 255 x L 950
Wheel Diameter	250 mm, pneumatic tyres
Ground clearance of pane	140 mm
Suction cups for load securing	Ø 210 mm / 57 kg Capacity, adjustable height
Deployment	Can be driven on terrain
Delivery format	Cardboard box

HDL Glass Transport Wagon "Air"
with pneumatic tyres

HDL 600 A - Up to 600 kg capacity OFF-ROAD

Its shock-absorbing pneumatic
tyres make it suitable for
extensive window panels and
façade elements.



For Optionals and
Accessories,
see page 264



Adjustable length
from 500 to 2000 mm!
Pneumatic tyres for
every surface
Including fully
rotating total-stop wheels



Extra low centre of gravity




The **shock-absorbing pneumatic tyres** on the new HDL 600 A with a 600 kg load capacity are equipped with **continuous total-stop**. This ensures **secure parking in any position or direction**. In addition, it can be **extended up to 2 m**.

Find an overview of all our glass transport wagons from p.353

GLASS TRANSPORT
WAGON

Model	HDL 600 A
Capacity	600 kg
Weight	65 kg
Material	Yellow chromate steel
Operation	Single operator
Max. pane dimensions in mm	L 4,000 x H 2,800
Min. pane dimensions in mm	L 400 x H 1,500
Dimensions in mm	L 2,000 x W 815 x H 1,800
Flange distance in mm	W 110 x L 300 and can be extended up to 2,000
Wheel Diameter	260 mm, pneumatic tyres
Ground clearance of pane	120 mm
Transport wagon ground clearance	75 mm
Load securing	Safe position due to the low centre of gravity and the vertical position of the transported goods
Deployment	Can be driven on terrain
Delivery format	Secure wooden crate

 Find more images and videos of our devices
in action at www.heavydrive.com

HDL Glass Transport Wagon "Air"
with pneumatic tyres

HD 700 BA Up to 700 kg capacity
Monster Off-Road Truck



With its adjustable height suction holders and handlebars, this flexible all-rounder is ideal for every glass pane and operator.

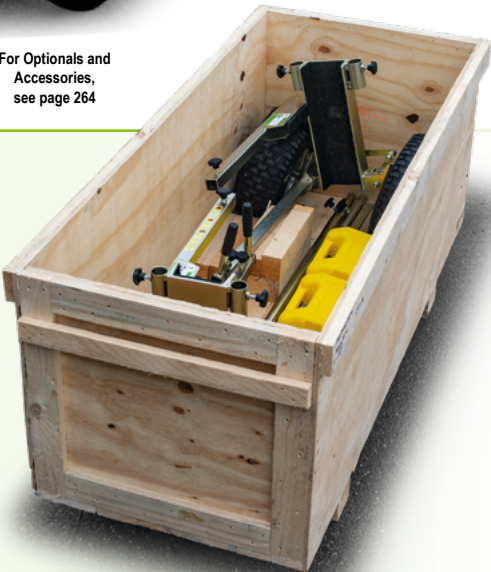


GLASS TRANSPORT
WAGON

Find an overview of all our glass transport wagons from p.353

Model	HD 700 BA
Capacity	700 kg
Weight	68 kg
Material	Yellow chromate steel
Operation	2-person operation
Max. pane dimensions in mm	L 5,000 x H 2,800
Min. pane dimensions in mm	L 2,400 x H 1,500
Dimensions in mm	L 2,400 x W 600 x H 1,800
Flange distance in mm	W 120 x L 2,400 and can be extended up to 3,800
Wheel Diameter	350 mm, pneumatic tyres
Ground clearance of pane	160 mm
Transport wagon ground clearance	130mm
Load securing	Safe position due to the low centre of gravity and the inclined position of the transported goods
Deployment	Can be driven on terrain
Delivery format	Secure wooden crate

For Optionals and
Accessories,
see page 264



HDL Glass Transport Wagon for heavy panes

- Dismountable and adjustable

HDL 500: Extendible 500-1,200 mm
capacity of up to 500 kg



- Extra-thin for narrow sites

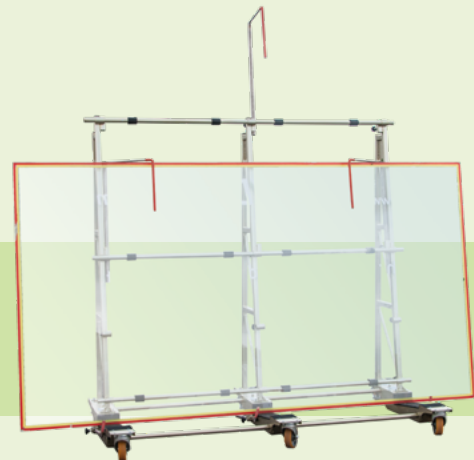
HD 1000: only 35 cm wide, up to 1000 kg capacity



GLASS TRANSPORT
WAGON

- Stable, even for huge panes

HDF 1000/3 with 3rd support
Up to 1,000 kg capacity

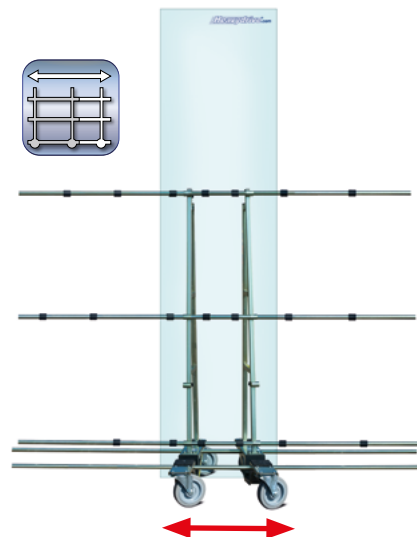
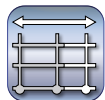
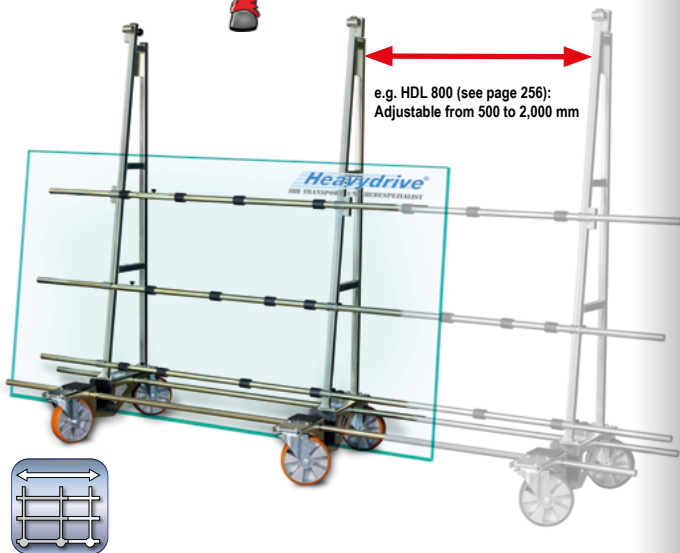


Advantages of HDL Glass Transport Wagons



The width of the glass transport wagon may be adjusted to the size of the pane

e.g. HDL 800 (see page 256):
Adjustable from 500 to 2,000 mm



e.g. HDL 700 (see page 252):
Transport glass panes min. 500 mm wide and max. 3,200 mm tall

Safe and easy transport of the pane due to low center of gravity and soft driving comfort.

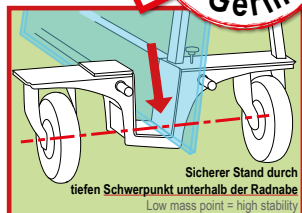
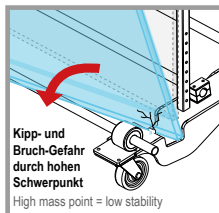
One-man operation!



GLASS TRANSPORT WAGON

Original

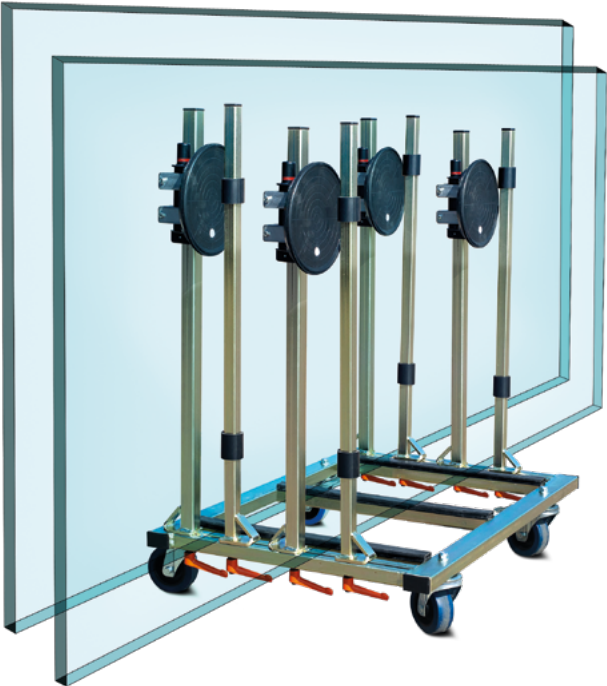
Entwickler und Hersteller • developer and producer



Advantages at a glance:

- Extremely lightweight construction; made of high-performance steel
- Optimal anti-slip protection through system buffer and rubber supports
- Secure placement due to its low centre of gravity (patented by Heavydrive®)
- Pane dimensions adjustable up to 3,200 mm
- Increased driving comfort
- Extremely low near-ground glass pane transport
- 1-person operation

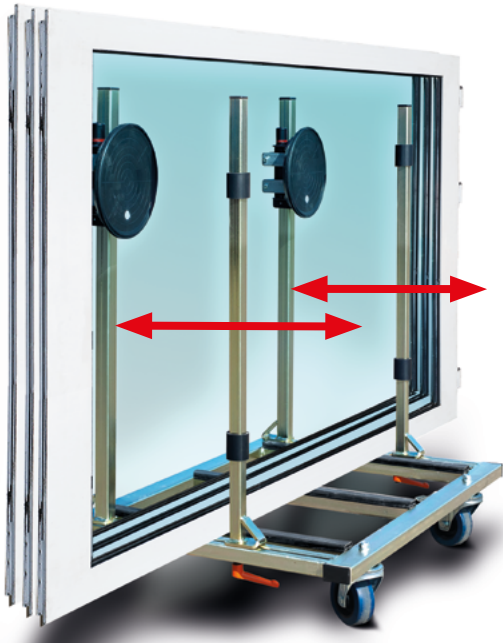
FT 300 Up to 300 kg capacity



Double safety with full-stop wheels:
Brakes in direction and position with only one lever pressure!

Find an overview of all our glass transport wagons from p.353

Model	FT 300
Capacity	300 kg
Weight	25 kg
Material	Yellow chromate steel
Operation	Single operator
Max. pane dimensions in mm	L 2,000 x H 1,600
Min. pane dimensions in mm	L 680 x H 1,000
Dimensions in mm	L 850 x W 600 x H 970
Flange distance in mm	Extendible W 0 up to 380 x L 300 up to 2,000
Wheel Diameter	100 mm
Ground clearance of pane	165 mm
Load securing	vertical locking bars with adjustable width and lockability, some with suction holder
Deployment	Can be driven on terrain
Delivery format	in a secure box



Sliding uprights that “clamp” the cargo between them, for example, when transporting more than one pane

Find more images and videos of our devices in action at www.heavydrive.com

NEW

GLASS TRANSPORT WAGON

Stacked glass panes and window parts can be rolled safely and comfortably. The adjustable grab poles make it possible to clamp loose parts.

HDL S 500 up to 500 kg capacity
to turn the panes **85° down to 45°**

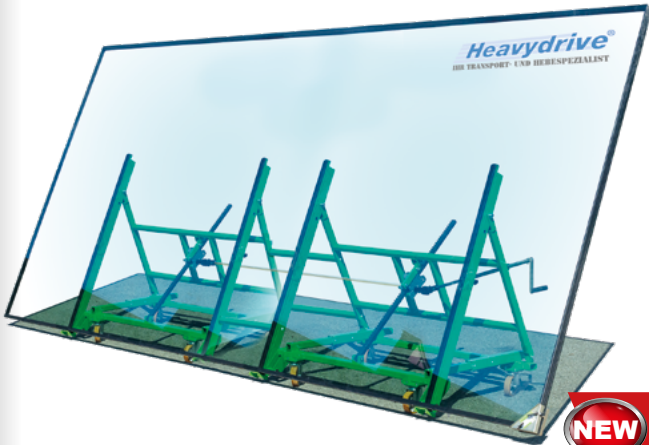


Also suitable for jumbo glass panes

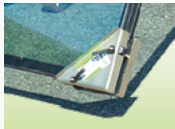
Advantage:
Using a mechanical hand crank, the glass pane can be turned horizontally up to 45°. The upper edge of the glass pane is thereby lowered to allow for the passage through automatic sliding doors.

Model	HDL S 500
Capacity	500 kg
Weight	110 kg
Material	Yellow chromate steel
Operation	Single operator
Max. pane dimensions in mm	L 2,500 x H 3,200
In dual mode max. in mm	L 6,000 x H 3,200
Min. pane dimensions in mm	L 1,500 x H 1,000
Dimensions in mm	L 1,480 x W 600 x H 1,410
Flange distance in mm	W 40 x L 1,500
Wheel Diameter	100 mm
Ground clearance of Pane	10 mm
Incline adjustment	pivoting from 89° to 45°
Load securing	Inclined support, anti-slip support
Deployment	in corridors
Delivery format	built on secure wooden pallet

Double safety with full-stop wheels: Brakes in direction and position with only one lever pressure!



In dual or tandem mode, two HDL S 500s are connected. Pivoting is performed with a mechanical crank. As a result, very large jumbo glass panes up to 6,000 mm can be safely turned and moved.



Optional:
Glass protection corner with 30 mm / 60 mm / 90 mm wide opening available!

For description, see page 223

Find an overview of all our glass transport wagons from p.353



compact for transport

NEW
GLASS TRANSPORT WAGON

HDL - Glass Transport Wagons for Heavy Panes

HDL 500 up to 500 kg capacity - our best seller!



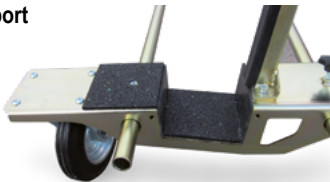
Twice as safe thanks to full-stop wheels: Brakes in direction and position with only one lever pressure!!

Demountable glass transport wagon which can be adjusted to the glass size



300 - 1,200 mm
Length adjustable support

Air freight packed according to the IPPC standards



Extra low centre of gravity

Contains only 5 parts
24 hour delivery!

For Optionals and Accessories, see page 264

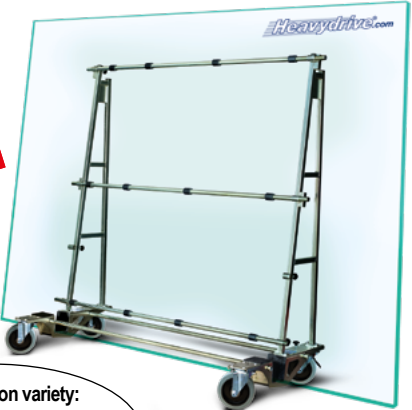
Model	HDL 500
Capacity	500 kg
Weight	32 kg
Material	Yellow chromate steel
Operation	Single operator
Max. pane dimensions in mm	L 2,500 x H 2,500
Min. pane dimensions in mm	L 500 x H 500
Dimensions in mm	L 1,200 x W 760 x H 1,440
Flange distance in mm	W 130 x L 300
Wheel Diameter	200 mm
Ground clearance of pane	120 mm
Load securing	low centre of gravity, inclined support, anti-slip support
Deployment	Can be partly driven on terrain
Delivery format	Wooden crate

HDL 600 Up to 600 kg capacity

The classic model from HEAVYDRIVE®: this model is based on the in-house original construction of the mobile glass frame. However, it is much **more flexible** than a simple glass stand on wheels. This glass transport rack is suitable for any size glass pane up to 4 m long and 3.2 m tall.



Secure placement
low centre of gravity



Glass panes up to 600 kg

Large extension variety:
500 – 2000 mm!
Shock-absorbing wheels
incl. parking brake



Find an overview of all our glass transport wagons from p.353
For Optionals and Accessories, see page 264

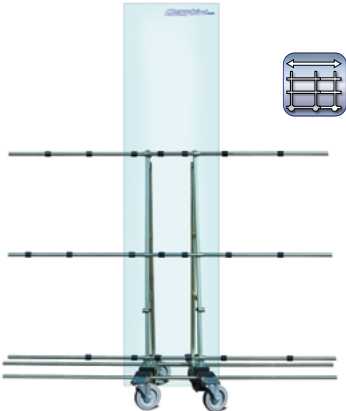
Model	HDL 600
Capacity	600 kg
Weight	52 kg
Material	Yellow chromate steel
Operation	Single operator
Max. pane dimensions in mm	L 4,000 x H 3,200
Min. pane dimensions in mm	L 500 x H 500
Dimensions in mm	L 2,000 x W 790 x H 1,980
Flange distance in mm	W 110 x L 500 up to 2,000
Wheel Diameter	200 mm
Ground clearance of pane	120 mm
Load securing	low centre of gravity, inclined support, anti-slip support
Deployment	Can be driven on terrain
Delivery format	Wooden crate

HDL 700 - Up to 700 kg capacity





A pane transporter which makes it possible for **just one person** to easily transport **bulky 3-way insulating glass panes weighing up to 700 kg** through doors and other bottlenecks. This glass pane transport frame can be adapted to any **glass pane size up to 6 m long and 3.2 m tall**.

This practical glass transport wagon can be **dismantled in just a few steps** and loaded in a **customised aluminium box** which can even be **carried by car or pickup truck** to any construction site.



Pane transport up to min. width of 500 mm and max. height of 3,200 mm

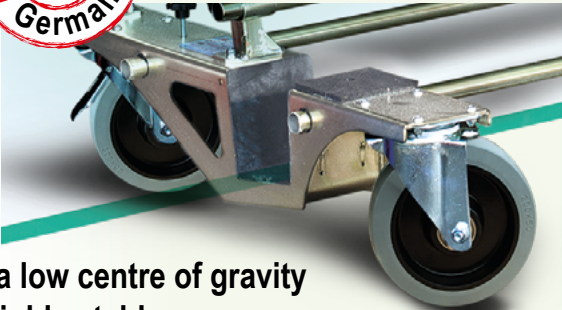


Find more images and videos of our devices in action at www.heavydrive.com

Find an overview of all our glass transport wagons from p.353



For Options and Accessories, see page 264



Extra low centre of gravity
→ Highly stable

Model	HDL 700
Capacity	700 kg
Weight	52 kg
Material	Yellow chromate steel
Operation	Single operator
Max. pane dimensions in mm	L 4,000 x H 3,200
Min. pane dimensions in mm	L 500 x H 500
Dimensions in mm	L 2.000 x W 790 x H 1.980
Flange distance in mm	W 110 x L 500 up to 2.000
Wheel Diameter	200 mm
Ground clearance of pane	120 mm
Load securing	low centre of gravity, inclined support, anti-slip support
Operation	Can be driven on terrain
Delivery format	Wooden crate

NEW
GLASS TRANSPORT WAGON

HDL - Glass Transport Wagons for Heavy Panes

HD 700 - Extra Narrow – Up to 700 kg capacity

A superior glass transport wagon that is only 350 mm wide, but nevertheless makes it possible for just one person to easily transport huge glass panes weighing up to 700 kg through doors and other bottlenecks.

This glass pane transport frame can be adapted to any glass pane size up to 6 m long and 3.2 m tall.

This practical glass transport wagon can be dismantled in just a few steps and loaded in a customised box that can even be carried by car or pickup truck to any construction site.



Available in two support widths.

Version B also perfectly suitable for window parts!



For Optionals and Accessories, see page 264

Highly stable

Top Selling Points:

- Shock-absorbing wheels for comfortable handling
- Light construction
- Can be dismantled in a few minutes
- Adjustable length and height
- Easy-to-steer by setting drive direction
- Widening fixture for panes up to 65 mm thick
- Only 350 mm wide
- Secure hold via Powrgrip hand suction cup.



Developed and manufactured in Germany by HEAVYDRIVE®

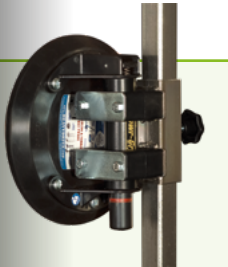


Only 350 mm wide!
Ideal for triple glazing!
CAN BE OPERATED BEHIND SCAFFOLDING!
24 hour delivery!

The staggered suction cups make it possible to also move façade elements. The reveal depth of 1-2 cm is bridged.

Handles - perfect for manoeuvring

2 - 3.5 m adjustable-length support



Vacuum suction cups with red-line display at loss of vacuum

Find an overview of all our glass transport wagons from p.353



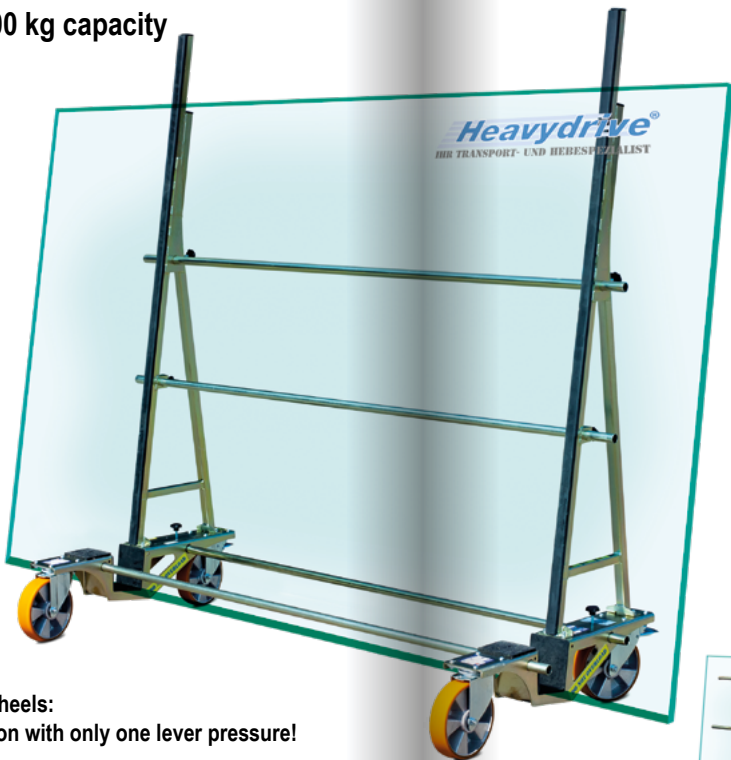
GLASS TRANSPORT WAGON

Model	HD 700	HD 700 B
Capacity	700 kg	
Weight	52 kg	
Material	Yellow chromate steel	
Operation	Single operator	
Max. pane dimensions/mm	L 5,000 x H 2,500	
Min. pane dimensions/mm	L 2,000 x H 500	
Dimensions in mm	L 2,000 x W 350 x H 1,980	L 2,000 x W 400 x H 1,980
Flange distance in mm	W 65 x L 2,000 up to 3,500	W 110 x L 2,000 up to 3,500
Wheel Diameter	200 mm	
Ground clearance of pane	120 mm	
Load securing	a pair of adjustable-height suction cups with non-slip pad	
Deployment	Can be driven on terrain	
Delivery format	Wooden crate	

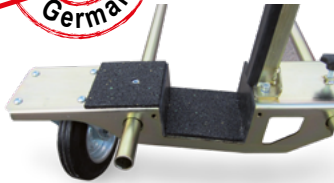
HDL 800 - Up to 800 kg capacity

A glass transport wagon that **one person** can use to **easily transport huge panes** weighing up to **800 kg** through doors and other **bottlenecks**. This glass pane transport frame can be adapted to any **glass pane size** up to **6 m** long and **3.2 m** tall.

This practical glass transport wagon can be **dismantled in just a few steps** and loaded in a **customised aluminium box** that can even be **carried by car or pickup truck** to any construction site.



Applications:
Hard-to-access areas on construction sites for heavy glass panes, glass parts and fire doors.



Extra low centre of gravity

Double safety with full-stop wheels:
Brakes in direction and position with only one lever pressure!

Find more images and videos of our devices in action at www.heavydrive.com

Find an overview of all our glass transport wagons from p.353

Model	HDL 800
Capacity	800 kg
Weight	58 kg
Material	Yellow chromate steel
Operation	Single operator
Max. pane dimensions in mm	L 6,000 x H 3,200
Min. pane dimensions in mm	L 500 x H 500
Dimensions in mm	L 2,000 x W 790 x H 1,980
Flange distance in mm	W 110 x L 500 up to 2,000
Wheel Diameter	200 mm
Ground clearance of pane	120 mm
Load securing	low centre of gravity, inclined support, anti-slip support
Deployment	Can be partly driven on terrain
Delivery format	Wooden crate



Adjustable from 500 to 2000 mm

adjustable-length support up to 2 m



GLASS TRANSPORT WAGON

We manufacture these wagons to customers' demands. We can do the same for you!

For Optionals and Accessories, see page 264



Optimal ground clearance
Very low centre of gravity for safe transport

HDL - Glass Transport Wagons for Heavy Panes

HD 1000 - Extra Narrow – Up to 1,000 kg capacity

A superior glass transport wagon that is only 350 mm wide, but nevertheless makes it possible for just one person to transport huge glass panes weighing up to 1,000 kg through doors and other bottlenecks.

This glass pane transport frame can be adapted to any glass pane size up to 6 m long and 3.2 m tall.

This practical glass transport wagon can be dismantled in just a few steps and loaded in a customised box that can even be carried by car or pickup truck to any construction site.



Vacuum suction cups with red-line display at loss of vacuum

Safe position



Only 350 mm wide!
Ideal for triple glazing!
CAN BE OPERATED BEHIND SCAFFOLDING!
24 hour delivery!



2 - 3.5 m adjustable-length support

Top Selling Points:

- Shock-absorbing wheels for comfortable handling
- Light construction
- Can be dismantled in a few minutes
- Adjustable length and height
- Easy-to-steer by setting drive direction
- Widening fixture for panes up to 65 mm thick
- Only 350 mm wide
- Secure hold via Powrgrip hand suction cup.



Height-adjustable steering handle – for easy handling.

For narrow passageways, the handle can be attached to face the direction of travel.



Extra low centre of gravity

GLASS TRANSPORT WAGON

Find an overview of all our glass transport wagons from p.353

For Options and Accessories, see page 264



low centre of gravity firm support and secure parking for the glass pane, very flexible, shock absorbing rollers

Model	HD 1000
Capacity	1,000 kg
Weight	52 kg
Material	Yellow chromate steel
Operation	Single operator
Max. pane dimensions in mm	L 5,000 x H 2,500
Min. pane dimensions in mm	L 500 x H 500
Dimensions in mm	L 2,000 x W 790 x H 1,980
Flange distance in mm	W 65 x L 2,000 up to 3,500
Wheel Diameter	200 mm
Ground clearance of pane	120 mm
Load securing	4 adjustable height suction cups with non-slip pads
Deployment	Can be partly driven on terrain
Delivery format	Wooden crate

HDL - Glass Transport Wagons for Heavy Panes

HDL 1000 - Up to 1,000 kg capacity



For panes up to 200 mm thick



Also suitable for all terrains



Glass Centre Schweikert, Heilbronn, Germany

A glass transport wagon that makes it possible for just one person to easily transport huge panes weighing up to 1,000 kg through doors and other bottlenecks.

This practical glass transport wagon can be dismantled in just a few steps and loaded in a customised aluminium box that can even be carried by car or pickup truck to any construction site. This glass pane transport frame can be adapted to any glass pane size up to 6 m long and 3.2 m tall.

Transport MEGA panes up to 6 m and 1,000 kg through doors and bottlenecks to the construction site



Adjustable-length support up to 2 m

GLASS TRANSPORT WAGON



Find more images and videos of our devices in action at www.heavydrive.com

Find an overview of all our glass transport wagons from p.353

Model	HDL 1000
Capacity	1,000 kg
Weight	60 kg
Material	Yellow chromate steel
Operation	Single operator
Max. pane dimensions in mm	L 6,000 x H 3,200
Min. pane dimensions in mm	L 500 x H 500
Dimensions in mm	L 2,000 x W 790 x H 1,980
Flange distance in mm	W 110 x L 500 up to 2,000
Wheel Diameter	200 mm
Ground clearance of pane	120 mm
Load securing	low centre of gravity, inclined support, anti-slip support
Deployment	Can be partly driven on terrain
Delivery format	Wooden crate



Easy to dismantle
Optional in aluminium transport box

For Optionals and Accessories, see page 264

HDL - Glass Transport Wagons for Heavy Panes

HDF 1000 + 1000/3 - for Wide Windows /
Façade Elements up to 1,000 kg



Up to 2m
adjustable-length support

Find an overview of all our glass transport wagons from p.353

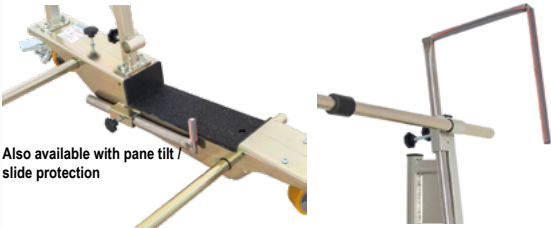
Model	HDF 1000	HDF 1000 /3
Capacity	1,000 kg	
Weight	60 kg	80 kg
Material	Yellow chromate steel	
Operation	Single operator	
Max. pane dimensions in mm	L 6,000 x H 3,200	
Min. pane dimensions in mm	L 500 x H 500	
Dimensions in mm	L 2,000 x W 930 x H 1,950	
Flange distance in mm	W 0 to 300 x L 500 to 2,000	
Wheel Diameter	140 mm	
Ground clearance of pane	120 mm	
Load securing	low centre of gravity, Inclined support, anti-slip support Locking device to keep panes from tipping Slip protection to keep panes from slipping	
Deployment	Can be partly driven on terrain	
Delivery format	Wooden crate	

For Optionals and
Accessories,
see page 264

HDF 1000/3:
Adjustable with 3 supports -
Ideal for segmented window and façade elements



Max.
1,000
kg
capacity

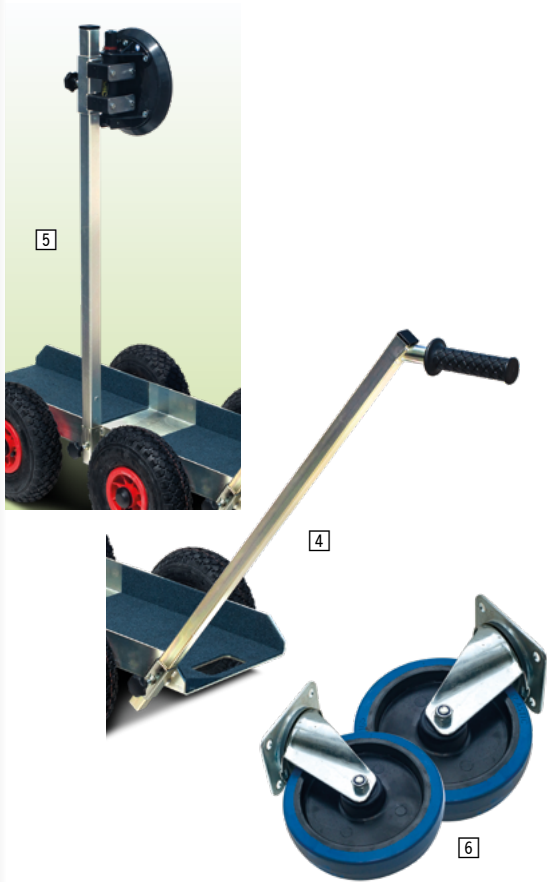
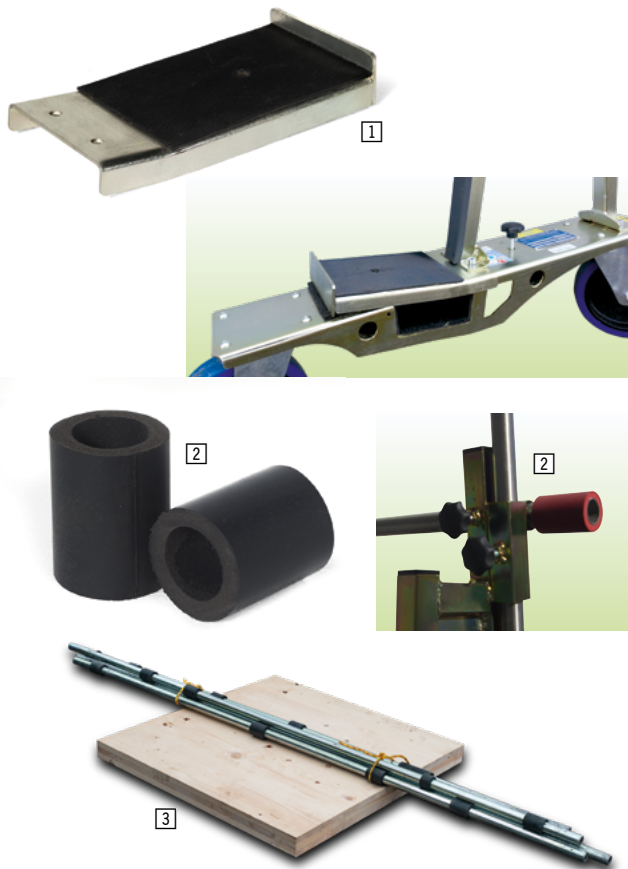


Also available with pane tilt /
slide protection

GLASS TRANSPORT
WAGON



Ideal for
façade elements and
curtain walls
up to 300 mm wide.
Always in stock!



GLASS TRANSPORT
WAGON

Find an overview of all our glass transport wagons from p.224

Accessories	Description	Use
1 Support extension	1 pair of steel supports with anti-slip pads are pushed and fastened under the existing pedestal	For transporting glass façade elements thicker than 250 mm
2 Support buffer	moulded high-strength plastic buffers placed on the steel pipe	All glass transport wagons have horizontal support rods
3 Extension rod set	Extension pipes for wagon extension up to 3,500 mm support length	All glass transport wagons with support
4 Handlebar	screwed-on rod with handle for guiding and steering the glass transport wagon	All glass transport wagons without support
5 Grab pole with cup	Screwed-on grab pole with adjustable height hand-suction cups for load securing	All glass transport wagons without support
6 Wheels Ø 140 / Ø 160	Replace tyres with 140 mm diameter wheels to reduce the glass support height	All glass transport wagons with support
Further information can be found at www.heavydrive.com		



MRK Assembly Cranes

- **Specifically for tight/confined assembly spaces**

MRK 55: indoor and outdoor
Up to 0.995-tonne capacity



page 272

- **The off-road power package**

MRK 167 up to 6-tonne capacity



page 288

- **The world's largest mini crawler crane**

MRK 230 with a lifting height of 28 m
and up to 10-tonne capacity



page 296

Non-Marking Tracks
for MRK assembly cranes



Are you using assembly cranes on floors that mark easily?

Indoor assembly is a real challenge and high-quality flooring is extremely easy to mark. Marks left by traditional black tracks or damage caused trying to remove these marks can be very expensive!

Did you know that shoes with black rubber soles are banned in sports halls? They can leave black marks that are very difficult to remove.

This is also a problem in indoor assembly projects where the floors have already been laid. But Heavydrive has the perfect solution.

Our MRK assembly cranes can be fitted with optional abrasion-free, non-marking tracks known as 'white tracks'.

This means that indoor assembly can take place safely without leaving any marks, even on easily-marked floors. This opens up new possibilities for creative planning and the organisation of modern projects.

It also makes indoor maintenance in existing buildings much more efficient.



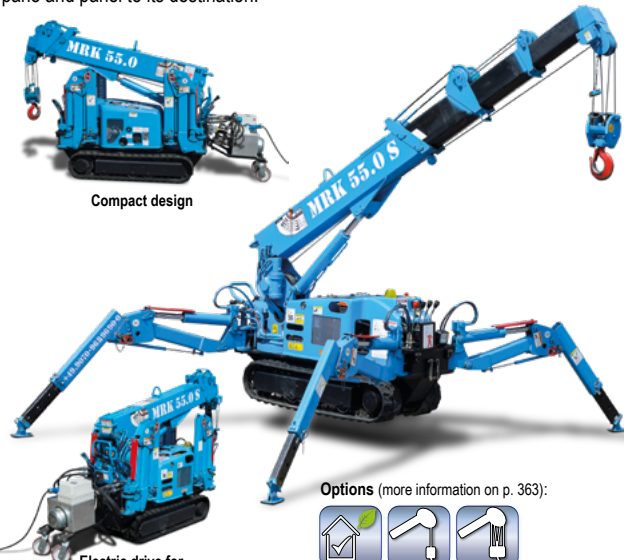
ASSEMBLY CRANES



All our assembly cranes are available with optional non-marking tracks

MRK 55.0 with Electric / Gas / Petrol drive

This mini caterpillar crane with a maximum capacity of 0.995 tonnes and a hook height of 5.5 m is suitable for indoor and outdoor use. With caterpillar tracks, steps in buildings are no problem either. Through various special Heavydrive® assembly tips, you can even reach under eaves, behind scaffolding and many other places. Alongside our vacuum suction systems, you can take almost every pane and panel to its destination.



Compact design

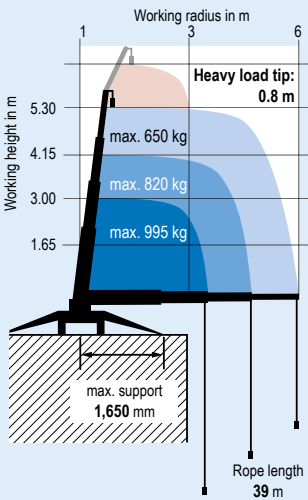
Options (more information on p. 363):



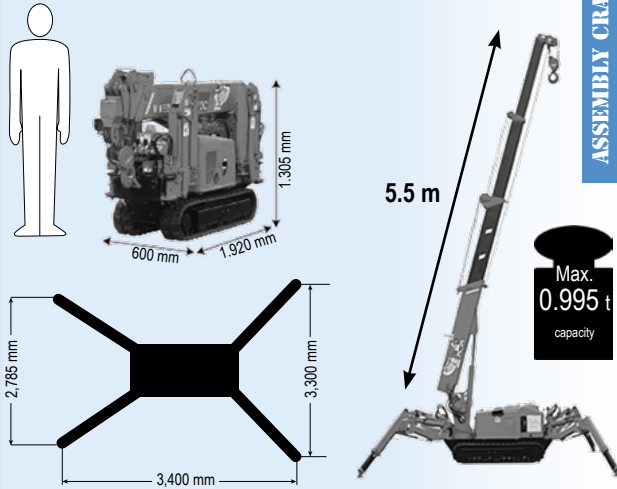
Electric drive for emission-free indoor use

Capacity with max. support (kg)				
	Projection length (m)			
Radius (m)	1.85	3.00	4.15	5.30
< 1.1	995	995		
1.3	980	980		
1.5	890	890		
1.65	790			
< 1.8			820	
2.0		750	750	
< 2.4				650
2.5		620	620	620
2.8		550	550	550
3.0			500	500
3.5			380	380
3.95			300	
4.0				300
4.5				250
5.1				200

For additional technical information see product overview from page 356



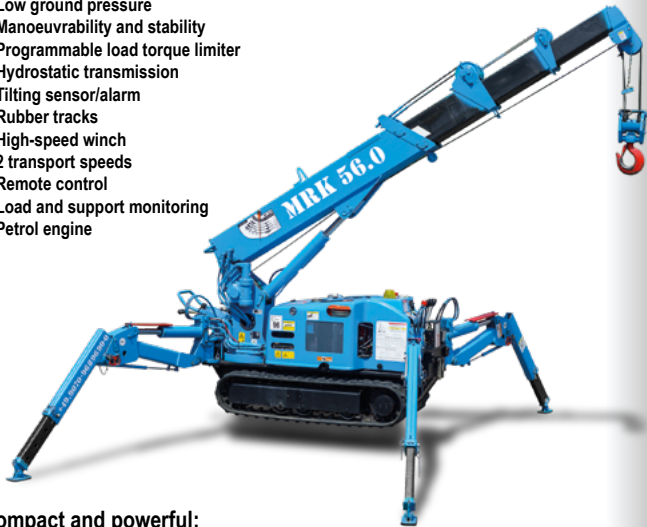
Especially for extra narrow and cramped environments!



ASSEMBLY CRANES

MRK 56.0 Assembly crane with 1.7-tonne loading capacity and sensor monitoring

- Maximum lift height of 5.5 m
- Extremely thin bodywork (590 mm)
- Low ground pressure
- Manoeuvrability and stability
- Programmable load torque limiter
- Hydrostatic transmission
- Tilting sensor/alarm
- Rubber tracks
- High-speed winch
- 2 transport speeds
- Remote control
- Load and support monitoring
- Petrol engine



Compact and powerful:

Only 590 mm wide, yet it has a loading capacity of 1.7 tonnes!

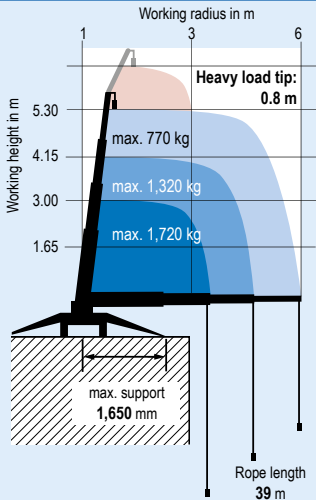
It even fits through narrow doorways!

Options (more information on p. 363):

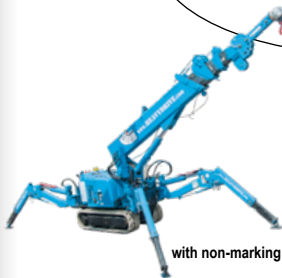


For additional technical information see product overview from page 356

Capacity with max. support (kg)				
	Projection length (m)			
Radius (m)	1.83	2.97	4.21	5.45
< 1.0	1,720	1,720	1,320	770
1.3	1,320	1,320	1,320	
1.5		1,120	1,120	
1.55	1,090			
2		820	820	700
2.5		670	670	660
2.69		580		
3			530	530
3.5			420	410
3.95			370	
4				330
4.5				270
5.15				220



The smallest crane with sensor monitoring!



with non-marking chains

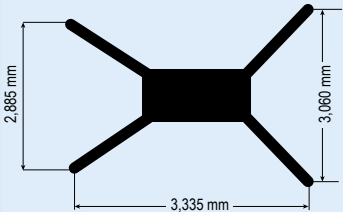
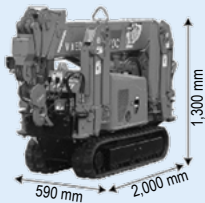


Find more images and videos of our devices in action at www.heavydrive.com



Above: Electric module

Left: MRK 56.0 even fits through narrow doorways!

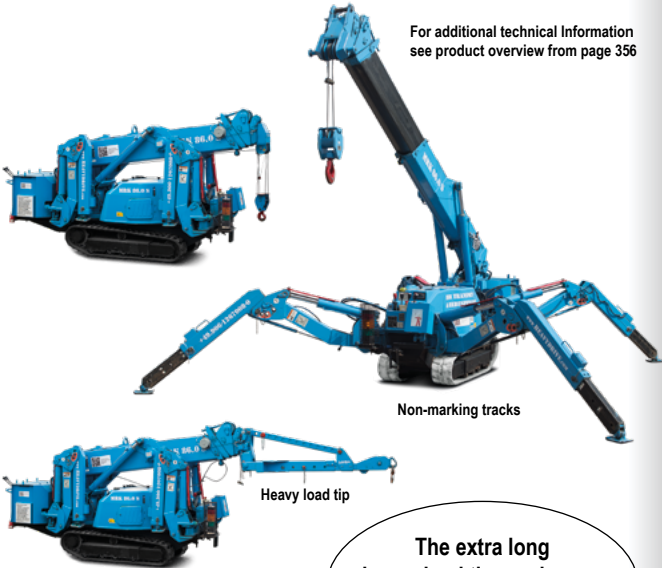


5.5 m

max. 1.72 t capacity

ASSEMBLY CRANES

MRK 86.0 with Electric / Diesel drive



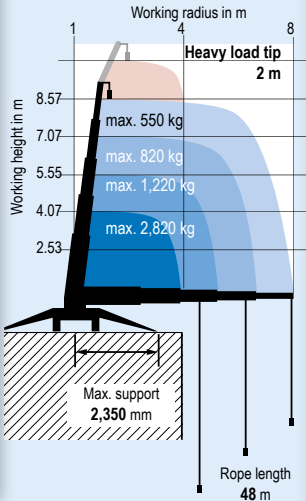
For additional technical Information
see product overview from page 356

Non-marking tracks

Heavy load tip

The extra long heavy load tip reaches up to 2 m under projections!
24 hour delivery

Capacity with max. support (kg)					
	Projection length (m)				
Radius (m)	2.53	4.07	5.56	7.08	8.58
< 1.4	2,820	2,820			
1.5	2,520	2,520			
2.0	1,920	1,920			
2,165	1,570				
2.5		1,570			
3.0		1,220	1,220		
3.5		970	970		
< 3.6				820	
3,705		920			
4.0			780	740	550
4.5			630	580	400
5.0			530	480	340
5,205			530		
5.5				430	300
6.0				380	270
6.5				350	230
6,705				330	
7.0					200
7.5					180
8.0					150
8,205					150

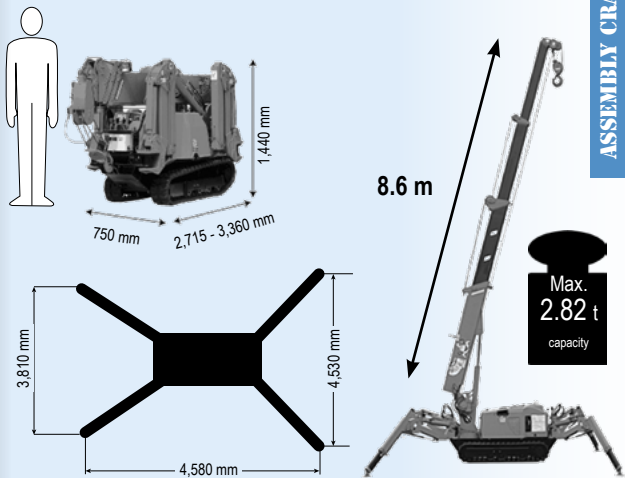


Find more images and videos of our devices
in action at www.heavydrive.com



Above: Glazing under protrusions
Left: Glazing behind scaffolding at Düsseldorf Airport, Germany

Options
(more information on p. 363):



ASSEMBLY CRANES

MRK 88.0 with Electric / Gas / Petrol drive

The talent of the mini cranes is two-fold: high performance with little weight.



Glazing on buildings with sharp angles and / or low floor load

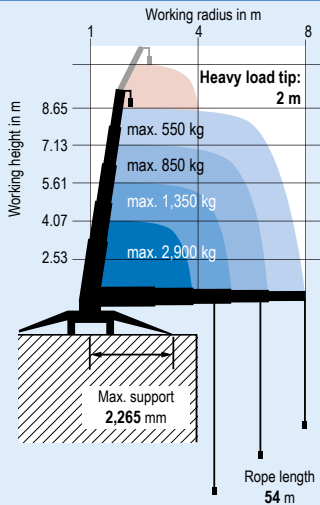
Capacity with max. support (t)				
	Projection length (m)			
Radius (m)	4.07	5.61	7.13	8.65
1.0	2.9			
1.4	2.9			
1.5	2.65	1.35		
1.8	2.25	1.35		
2.0	2.05	1.35		
2.2		1.25		
2.5	1.65			0.55
2.9		1.0		
3.0	1.3			0.55
3.3			0.85	
3.5		0.8		
3.8			0.85	0.55
3.84	0.9	0.65		
4.0		0.52	0.75	
4.1		0.43		0.55
4.5			0.6	0.45
5.0			0.5	0.37
5.37				
5.5			0.42	0.31
6.0			0.36	0.27
6.5			0.32	0.23
6.89			0.27	
7.0				0.2
8.0				0.15
8.41				0.13



Options (more information on p. 363):



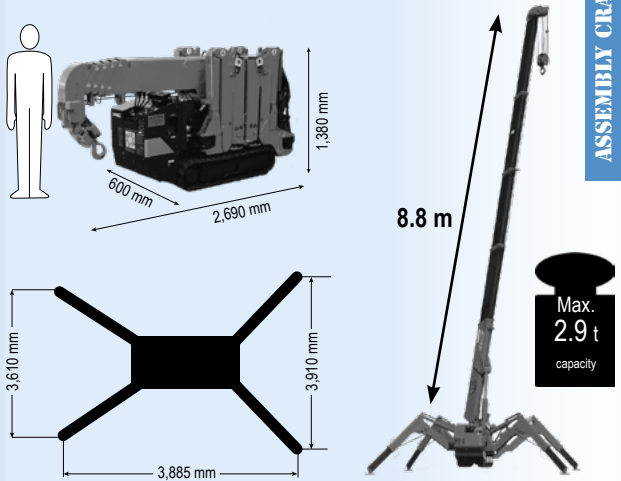
For additional technical Information see product overview from page 356



The first mini caterpillar crane on the European market with a capacity of approx. 3 t and narrow enough to drive through a normal 600 mm door frame!



The MRK 88 shows off the full extent of its strengths in confined and tricky construction situations (Inside to outside) Bulletproof glazing at EZB gatehouse, Frankfurt am Main.



ASSEMBLY CRANES

The newest assembly crane with a capacity of 2.93 tonnes is designed specifically for restricted city centre locations. The crane can lift up to 1,465 kg and can be driven under load with hardly any deviation from an extremely narrow track.



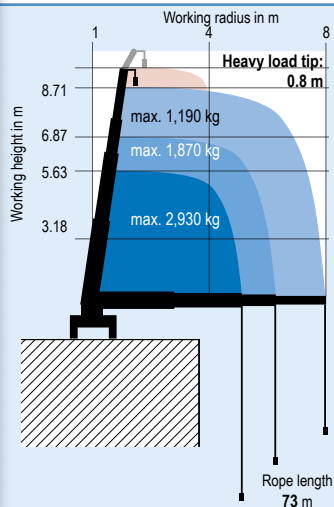
Art Museum Stuttgart, Germany

For additional technical information
see product overview from page 356

Options (more information on p. 363):



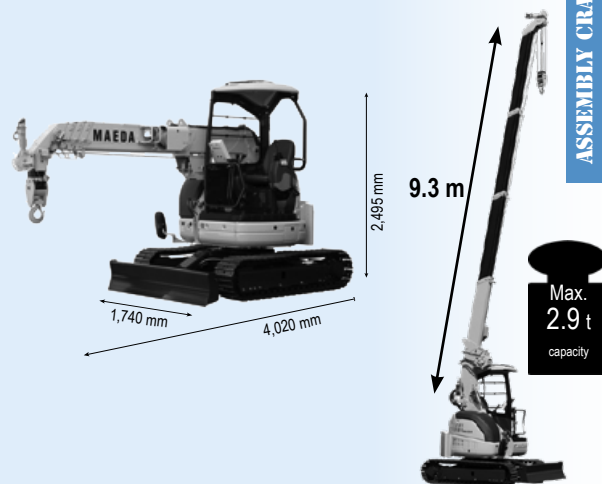
Capacity with max. support (kg)				
	Projection length (m)			
Radius (m)	3.18	5.0	6.78	8.7
1.5	2,930	2,930	1,870	1,190
2.0	1,730	1,730	1,730	1,190
2.5	1,200	1,190	1,190	1,190
2.85	980	900	980	980
3.0		800	900	900
3.5		720	720	
4.0		600	600	600
4.5		500	500	500
4.7		460	460	
5.0			430	430
5.5			370	370
6.0			330	290
6.5			290	
8.0				215
8.38				200



1,495 kg
without further support
under drivable load.
Only 1.74 m wide.



Find more images and videos of our devices
in action at www.heavydrive.com



MRK 126.0 with Electric/ Diesel drive

This extremely versatile assembly crane with a capacity of 2.93 tonnes and a hook height of 12.66 m is suitable for both indoor and outdoor use.

With its caterpillar tracks, it can drive on any ground and thanks to its non-marking (non-colouring) tracks, steps in buildings are no problem either. The low ground pressure of the caterpillar tracks is also advantageous.

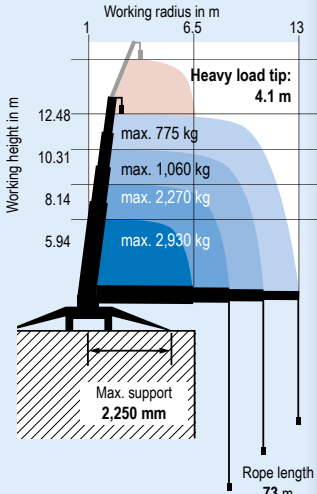
With various special Heavydrive® heavy-load tips with up to 4.1 m reach extension, it can go under tricky eaves, behind difficult to access scaffolding and in other unfavourable places. In combination with our vacuum suction systems, you can bring almost every pane and panel, even with a porous surface, to its destination.

This high-quality crane works with extreme precision and our experienced operating personnel manoeuvre this equipment jerk-free and exact to the millimeter.

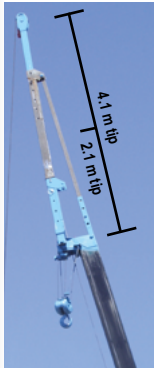
Capacity with max. support (kg)				
	Projection length (m)			
Radius (m)	5.94	8.14	10.31	12.48
2.5	2,930			
2.7		2,270		
3.0	2,350	2,090		
3.5	1,950	1,680		
4.0	1,670	1,415	1,060	
4.5	1,450	1,230	950	775
4.9				
5.0	1,300	1,070	860	640
5.5		950		
5.62	1,120			
6.0		855	750	
6.5				
7.0			645	410
7.82		610		
8.0			540	360
9.0			490	320
9.99			415	
10.0				
11.0				260
12.0				
12.16				250



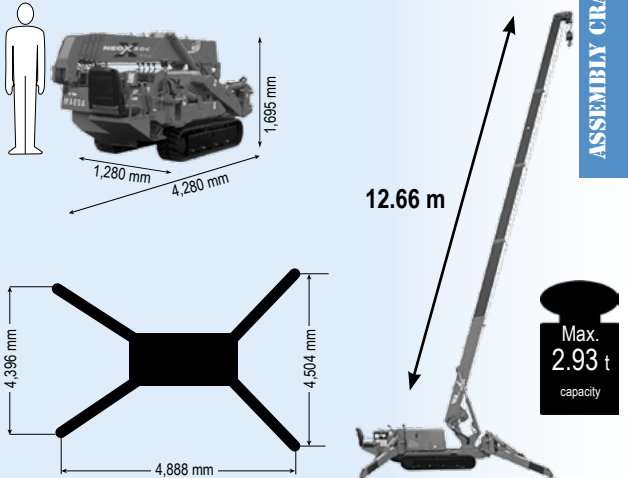
For additional technical information see product overview from page 356



Heavy load tip

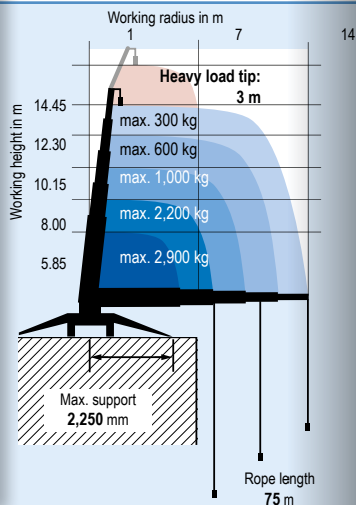


Options (more information on p. 363):



ASSEMBLY CRANES

Find more images and videos of our devices in action at www.heavydrive.com



**Heavy load tip 1.6 m
extends up to 3.0 m!**



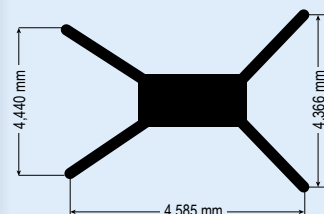
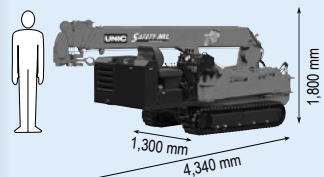
For additional technical information
see product overview from page 356



Promenade in Donauwörth, Germany



ASSEMBLY CRANES



Max.
2.9 t
capacity

MRK 158.0 with Electric / Diesel drive



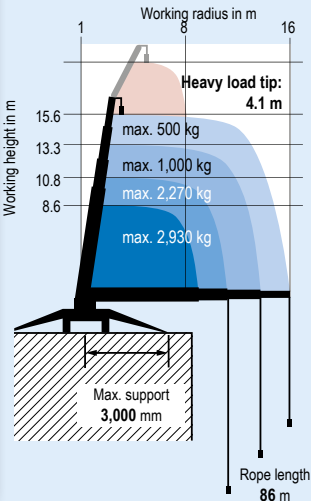
Options (more information on p. 363):



Capacity with max. support (t)				
Radius (m)	Projection length (m)			
	8.6	10.8	13.3	15.6
2.0	3.0			
3.0	3.0	2.0	1.0	0.5
3.4	3.0		1.0	
4.0	2.4	2.0	0.92	
4.5	2.1	1.8	0.85	0.5
5.0	1.85	1.6		0.5
5.5	1.7	1.45	0.7	
6.0	1.55	1.3		0.5
6.5	1.4		0.6	
7.0	1.3	1.0		0.4
7.5	1.2		0.55	
8.0		0.95	0.5	0.35
8.4	1.0			
9.0		0.85	0.45	0.3
10.0		0.75	0.4	0.25
10.8		0.64		
11.0			0.35	0.25
12.0				0.2
13.0				0.2
13.1				
14.0				0.15
15.45				0.15
16.5				



For additional technical Information see product overview from page 356



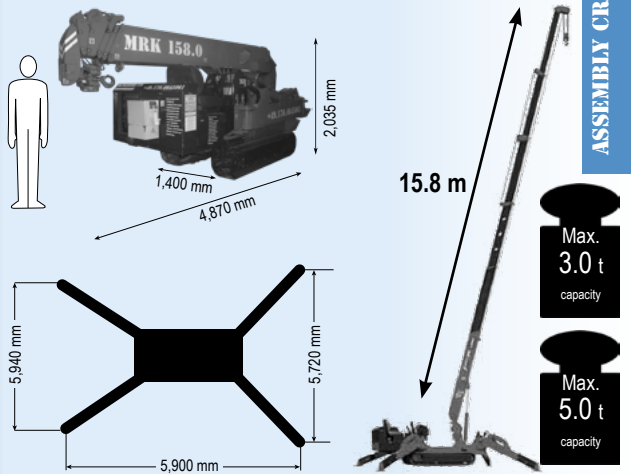
The specialist in heights up to 21 m and quick work at high capacity!

No purchase necessary - rent at a low cost!

Can be extended up to 21 m with assembly tip!



Above: BfA, Heidenheim. Below: Shop, Biberach, both Germany



MRK 163.0 with Diesel drive



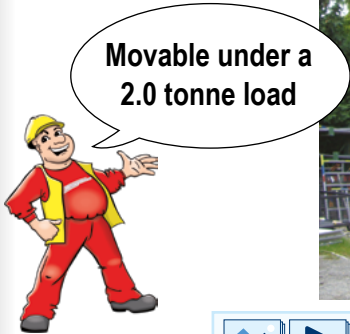
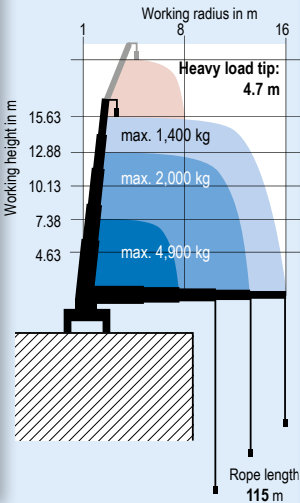
Heavy load tip
up to 400 kg capacity,
can be extended to
4.7 m

	Capacity with max. support (t)				
	Projection length (m)				
Radius (m)	4.63	7.38	10.13	12.88	15.63
2.00	4.9	4.9	2.0	2.0	
2.50	3.8	3.76	2.6	2.0	1.4
3.00	2.9	2.98	2.31	2.0	1.4
3.50		2.42	2.01	1.89	1.4
4.00		2.0	1.75	1.65	1.4
4.50		1.67	1.53	1.45	1.32
5.00		1.40	1.34	1.28	1.2
6.00		1.0	1.03	1.01	0.99
7.00			0.78	0.8	0.82
8.00			0.58	0.53	0.68
9.00			0.41	0.5	0.56
10.00				0.39	0.45
11.00				0.3	0.36
12.00					0.28
13.00					0.21
14.00					0.2
14.52					0.2

Options (more information on p. 363):



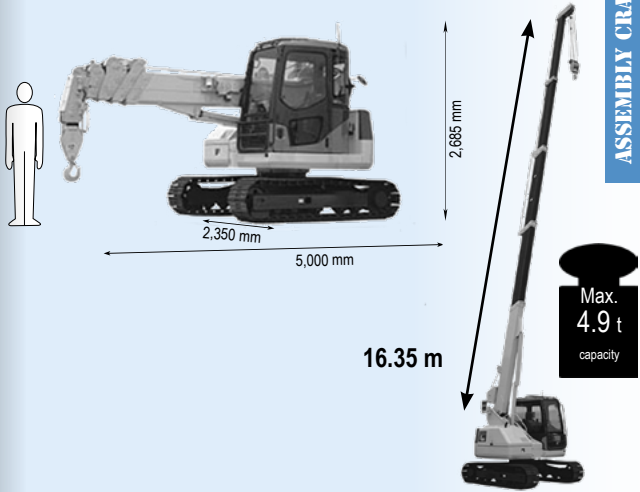
For additional technical information
see product overview from page 356



Movable under a
2.0 tonne load



Find more images and videos of our devices
in action at www.heavydrive.com



ASSEMBLY CRANES

This powerful and innovative crane offers market leading features, including a 6-tonne capacity and a bulldozer blade for impassable terrain.



**Heavy load tip
up to 400 kg capacity,
can be extended to
4.1 m**

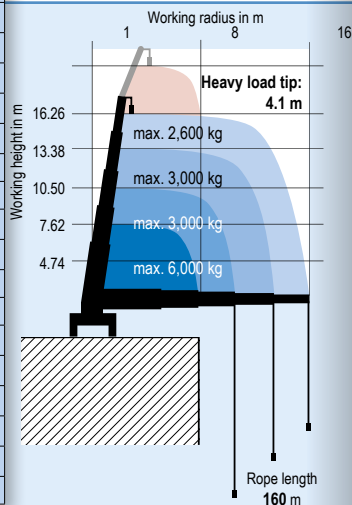


Options (more information on p. 363):



For additional technical information
see product overview from page 356

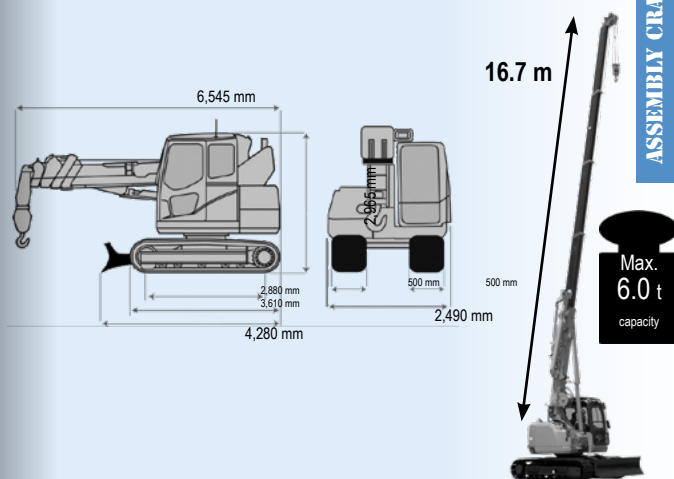
	Capacity with max. support (t)				
	Projection length (m)				
Radius (m)	4.74	7.63	10.50	13.38	16.26
2.00	6.0	6.0	3.0		
2.50	6.0	6.0	3.0	3.0	
3.00	5.25	5.26	3.0	3.0	2.6
3.50	4.45	4.46	3.0	3.0	2.6
4.00	3.83	3.82	3.0	3.0	2.6
4.50	3.32	3.31	3.0	3.0	2.6
5.00		2.88	2.71	2.64	2.6
6.00		2.21	2.14	2.1	2.08
7.00		1.72	1.72	1.71	1.71
8.00			1.4	1.43	1.43
9.00			1.15	1.20	1.21
10.00			0.94	1.02	1.04
11.00				0.88	0.89
12.00				0.75	0.77
13.00				0.65	0.67
14.00					0.58
15.00					0.5
16.01					0.43



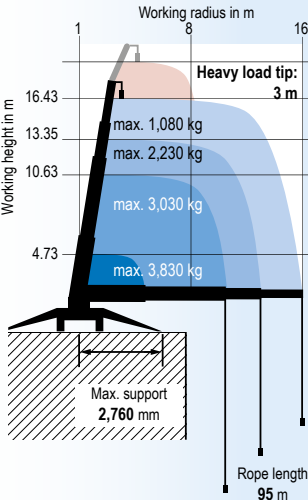
**Powerful and suited to
off-road!
Movable under a
2.0 tonne load without
supports**



Find more images and videos of our devices
in action at www.heavydrive.com



MRK 168.0 with Electric / Diesel drive



Options (more information on p. 363):



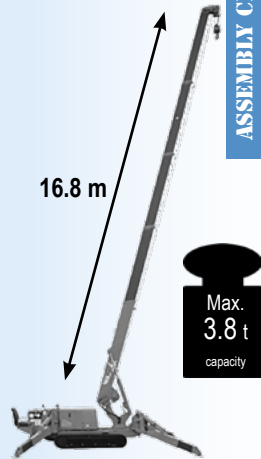
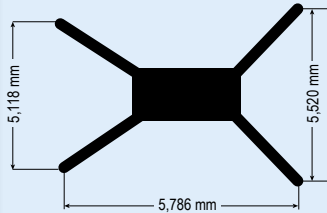
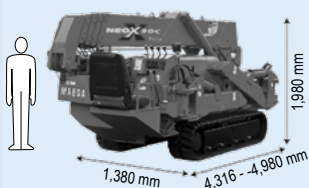
For additional technical Information see product overview from page 356

Capacity with max. support (t)				
Radius (m)	Projection length (m)			
	4.68	10.63	13.53	16.43
< 2.7	3.83			
3.5	3.03			
3.0				
3.5		3.03		
4.0	2.58	2.58	2.23	
4.5			1.93	
5.0	2.03	2.03	1.73	0.108
5.5				0.98
6.0	1.63	1.63	1.4	0.91
7.0	1.33	1.33	1.18	0.76
7.25	1.33			
8.0		1.08	0.98	0.65
9.0		0.88	0.85	0.55
10.0		0.58	0.75	0.50
11.0			0.65	0.45
12.0			0.53	0.41
13.0			0.43	0.36
14.0				0.31
15.0				0.26
16.0				0.21

This compact mobile caterpillar crane fits perfectly in industrial lifts, has a capacity of 3.8 tonnes and a hook height of 16.8 m. It can be electrically or diesel powered and is therefore suitable for both indoor and outdoor use. With caterpillar tracks, it can drive on any surface and thanks to its non-marking (non-colouring) tracks, can also be driven on indoor floors.

Using various special Heavydrive® assembly tips, you can even position loads of up to 500 kg up to 3 m under balconies, eaves and other projections that cannot be accessed by other cranes. Alongside our vacuum suction systems, you can take almost every pane and panel made of glass, concrete, stone, metal or plastic to its destination.

Hire our Heavydrive® operating personnel, too - they are experts in manoeuvring the equipment jerk-free and exactly to the millimetre!



ASSEMBLY CRANES

MRK 195.0 with Electric / Diesel drive

Compact small crane with an incredible reach of up to 22.7 m, including the patented Heavydrive® mounting tip. The standard is a maximum load capacity of 6.0 tonnes and a hook height of 19.5 m. The small crane can be operated electrically by heavy current or with diesel, and thus it can be used indoors or outdoors. Thanks to its caterpillar tracks, it can travel over any surface and can also drive inside buildings and over floors using non-marking chains. When operated with our window suction systems, you can place almost any pane / plate made of glass, concrete, stone, metal or plastic at the desired location.

At the same time, our Heavydrive® operator manoeuvres without jerks and with millimeter precision! Hire one of our operators!

Optional:
Heavy load tip
for up to 22.7 m!

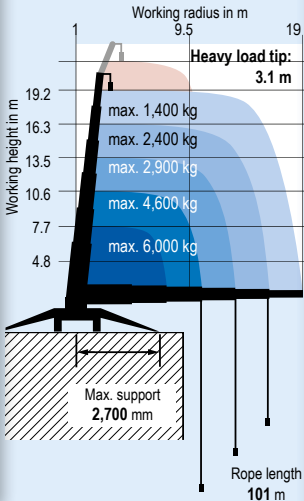


Capacity with max. support (t)						
Radius (m)	Projection length (m)					
	4.8	7.7	10.6	13.5	16.3	19.2
2.7	6	6	4.6			
3.0	6	6				
3.5	5.4	5.4				
4.0	4.8	4.8	4.6			
4.3	3.9					
5.0		3.8	3.7	2.9		
5.5						
6.0		2.9	2.9	2.5	2.4	
7.0		2.3	2.4	2.1		
7.2		2.0				
8.0			1.8	1.9	1.7	1.4
8.4						
9.0			1.4	1.5	1.4	
10.0			0.9	1.2	1.2	1.0
10.8						
11.0				0.9	1.0	0.8
12.0				0.8		
13.0				0.5	0.7	
13.1						
14.0					0.6	0.6
15.0					0.5	
16.5						
18.0						0.3
18.6						0.2

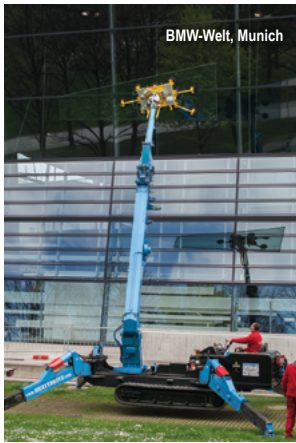
Options (more information on p. 363):



For additional technical Information
see product overview from page 356



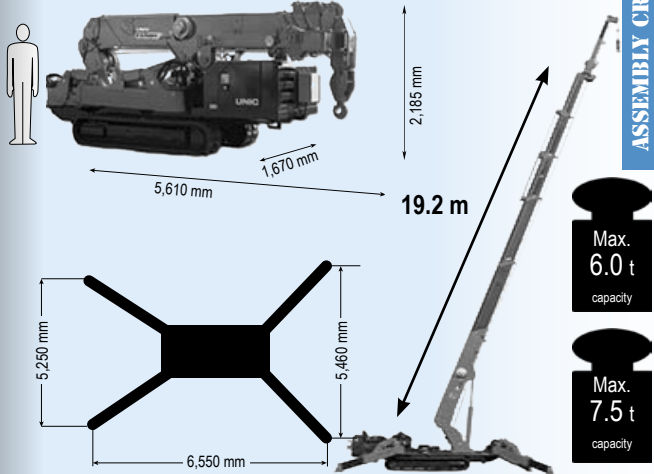
Stadium in Heidenheim an der Brenz



BMW-Welt, Munich



Maritim Hotel in Usedom



ASSEMBLY CRANES

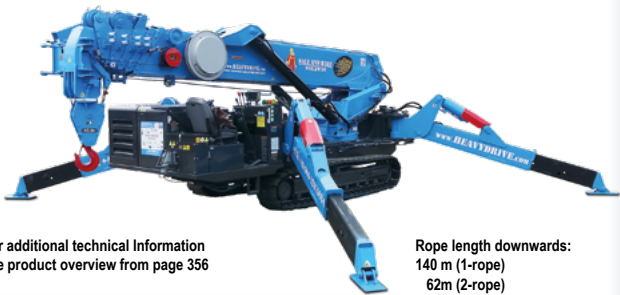
Max.
6.0 t
capacity

Max.
7.5 t
capacity

MRK 230.0 with Electric / Diesel drive

As the world's largest assembly crane with a lifting height of 22.9 metres and a 7.5 metre hydraulically movable assembly tip, it mounts panes up to a 10 tonne capacity.

Its compact design is perfect for working in restricted spaces. Alongside our vacuum suction systems, you can take almost every pane and panel made of glass, concrete, stone, metal or plastic to its destination. At the same time, our Heavydrive® operator manoeuvres without jerks and with millimeter precision! Hire one of our operators!



For additional technical information see product overview from page 356

Capacity with max. support (t)								
Radius (m)	Projection length (m)							
	6.0	9.0	13	16	20	23	28	31
3	10.0	10.0						
4	8.8	7.6						
4	6.3						1.0	
5	5.0		5.7					1.0
5		5.0	4.7	3.8				
6								0.9
6			4.0	3.8	3.3	2.8		
7								0.7
7		3.0	3.0	2.9	2.2			0.6
7								0.6
8		2.0	2.3	2.4		2.0		
9			1.7					0.4
10			1.4	1.6	1.7	1.6		
10								0.3
11				1.3				
12			1.0					
12				1.0	1.2	1.2		
13				0.8				
14				0.7	0.8	0.9		
15				0.6				
16					0.6	0.7		
17					0.5			
18					0.4	0.5		
19					0.3			
20						0.3		
22							0.2	
25								

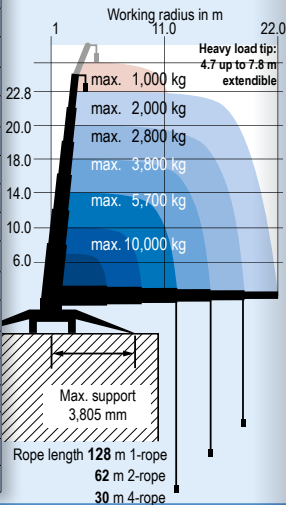
Rope length downwards:
140 m (1-rope)
62m (2-rope)
30m (4-rope)
Unwind hydraulically
Lifting height 22.80 to 30.7 m
Movable with 1,500 kg load
(Pick & Carry)

Options (more information on p. 363):



Optional:

- 3-axis-manipulator-adaptor
- Work basket up to 32 m height + 19 m radius, 200 kg capacity



The most powerful mini crawler crane in the world with an unrivalled 10-tonne load capacity!



Find more images and videos of our devices in action at www.heavydrive.com



Removable boom for transportation



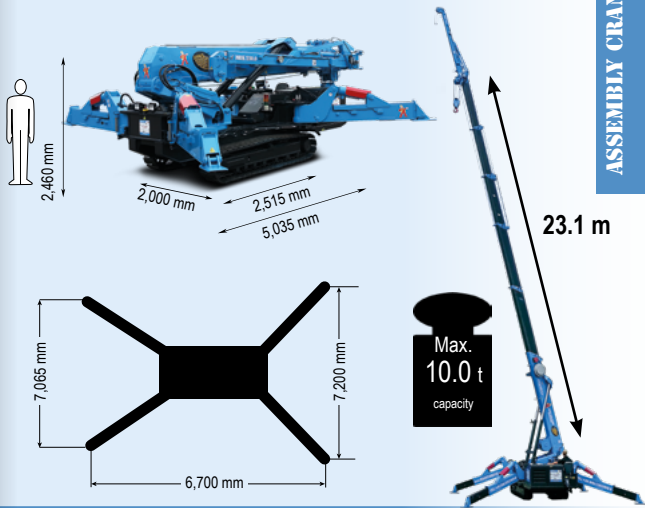
Hydraulic tip mounted on the side



Hydraulic fold-out support



Clear control panel



ASSEMBLY CRANES



Pick & Carry Cranes / Industrial Mobile Cranes



Many more models
available with a capacity of
up to 100 tonnes!

**Service and Rental
from Tapfheim**

- Can lift and move loads
- Accurate positioning to the mm
- Very easy to operate
- Ideal for indoor or outdoor use



- Movable under loads of up to 2000 kg
MLK 20



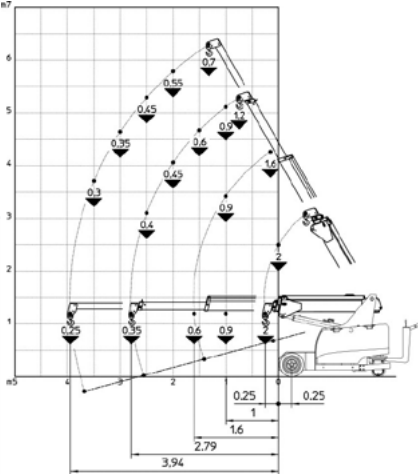
- Strong and compact
MLK 85 with 8.5 tonne capacity



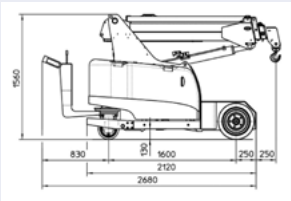
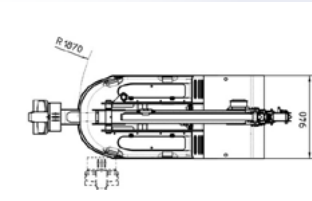
- For extremely heavy panes
MLK 600 with 60 tonne capacity



MLK 20 Up to 2 tonne capacity



Optional Equipment
(For more information see p. 363)

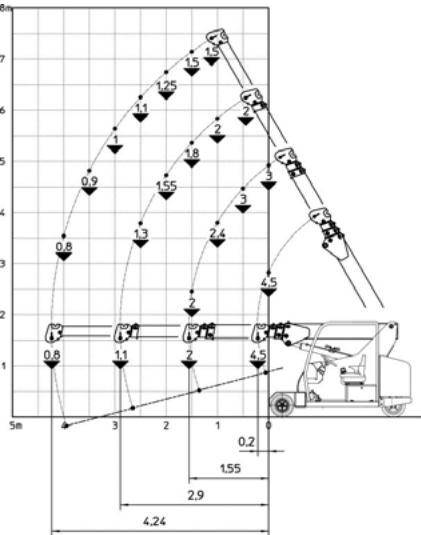


Compare our different
Pick & Carry cranes on 360

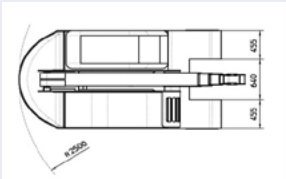
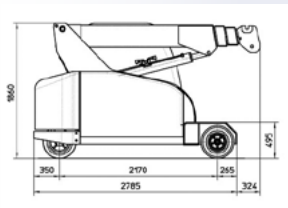
Model	MLK 20
Capacity	2,000 kg
Net Weight	2,000 kg
L x W x H in mm	2,680 x 940 x 1,560
Turning Radius	1,870 mm
Boom Angle	-15° to 60°
Frame	Torsion resistant design made with high-strength structural steel
Power Type	Electric battery
Transmission	Rear axle by reducer
Boom	Hydraulic base unit and telescopic mast element as well as two manual extensions
Motor Pump	1 Electric motor 2.6 kW 24 V AC. Insulation class H
Battery	24 V 420 Ah battery charging indicator
Wheels	Front: 2 Superelastic 18 x 7 - 8" - Rear: Polyurethane 255/80
Brakes	Automatic on rear wheels
Steering	Rear wheel. Max. steering angle ± 90°
Standard Equipment	<ul style="list-style-type: none">• Working light• Warning light, fire extinguisher, safety shutdown• Declaration of conformity / CE label• User manual, maintenance schedule• Spare parts list• Standard battery charger (external)
Optional Equipment	<ul style="list-style-type: none">• Heavy load tip• Assembly tip• Pulley block 4-rope• Remote control radio• Hydraulic winch with max. 2,000 kg capacity• Hydraulic High-Speed winch with max. 2,000 kg capacity• Non-marking wheels• Automatic filling system for batteries• Standard battery charger (internal)• Fully hydraulic boom (basic element + two telescopic mast elements + manual extension)• Radio remote control only for boom movement• Wired remote control only for boom handling• Man basket 100 kg (one man)• Only available with radio or wired remote control• Paintwork at customer's request

PICK & CARRY
CRANES

MLK 45 Up to 4.5 tonne capacity



Optional Equipment
(For more information see p. 363)



Compare our different
Pick & Carry cranes on 360

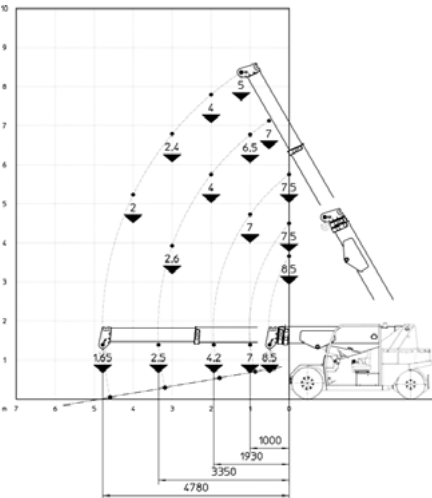
Model	MLK 45
Capacity	4,500 kg
Net Weight	4,800 kg
L x W x H in mm	2,785 x 1,550 x 1,860
Turning Radius	2,500 mm
Boom Angle	-15° to 60°
Frame	box type, torsion resistant design made with high-strength structural steel
Power Type	Electric battery
Transmission	Rear-wheel drive
Boom	Hydraulic base and telescopic mast element
Traction Motor	Electric motor 5 kW 48 V AC. Insulation class H
Motor Pump	Electric motor 9 kW 48 V AC. Insulation class H
Battery	48 V – 560 Ah
Wheels	Front: 4 superelastic 18 x 7 - 8 " Rear: 1 superelastic 200/50-10"
Braking	Automatic on all wheels (front and rear)
Steering	Over the rear axle with max. steering of ± 90°;
Hydraulic System	2.5 kW 24 V DC-Motor
Standard Equipment	<ul style="list-style-type: none">• Remote control radio for boom and crane movement• Operator's cab• Working light• Warning light, fire extinguisher, safety shutdown• Declaration of conformity / CE label• User manual, maintenance schedule• Spare parts list• Standard battery charger (external)
Optional Equipment	<ul style="list-style-type: none">• Heavy load tip• Assembly tip• Pulley block 4-rope• Remote control radio• Hydraulic winch with max. 2,000 kg capacity• Hydraulic High-Speed winch with max. 2,000 kg capacity• Non-marking wheels• Automatic filling system for batteries• Standard battery charger (internal)• Manually adjustable boom on 3 positions (600 mm) - max. capacity 3,500 kg• Manually adjustable boom on 3 positions (1200 mm) - max. capacity 500 kg• Hydraulic boom• Man basket 100 kg (one man); man basket 200 kg (two man)• Paintwork on purchase at customer's request

PICK & CARRY
CRANES

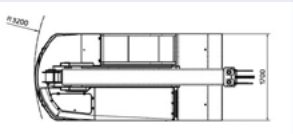
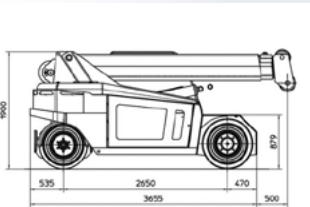
MLK 85 Up to 8.5 tonne capacity



Compare our different
Pick & Carry cranes on 360



Optional Equipment
(For more information see p. 363)



Model	MLK 85
Capacity	8,500 kg
Net Weight	9,070 kg
External Dimensions:	
L x W x H in mm	3,655 x 1,700 x 1,900
incl. crane boom	4,155 x 1,700 x 1,900
Turning Radius	3,200 mm
Boom Angle	-10° to 60°
Frame	box type, torsion resistant design made with high-strength structural steel
Power Type	Electric battery
Transmission	Front-wheel drive with countershaft
Boom	Hydraulic base and two telescopic, proportionally extending mast elements
Traction Motor	Electric motor 2 x 7.5 kW 72 V AC. Insulation class H
Motor Pump	Electric motor 16 kW 72 V AC. Insulation class H
Battery	72 V – 620 Ah
Wheels	Front: 2 superelastic 355 x 65 – 15" Rear: 2 superelastic 7.50 – 15"
Brakes	Service brake: hydraulic pedal operated on all wheels. Parking and emergency brake: hydraulic with automatic control on front wheels
Steering	On the rear wheels by hydraulic motor controlled by hydrostatic power steering with load sensing priority valve.
Hydraulic system	Powered by a 16 kW silenced gear pump, actuators controlled by electro-proportional distributor with electronic joystick, filter and safety valve. 22 MPa max. working pressure
Standard Equipment	<ul style="list-style-type: none">• Operator's cab• Working light• Warning light, fire extinguisher, safety shutdown• Declaration of conformity / CE label• User manual, maintenance schedule• Spare parts list• Standard battery charger (external)
Optional Equipment	<ul style="list-style-type: none">• Heavy load tip• Assembly tip• Pulley block 4-rope• Remote control radio• Hydraulic winch with max. 2,000 kg capacity• Hydraulic High-Speed winch with max. 2,000 kg capacity• Non-marking wheels• Automatic filling system for batteries• Standard battery charger (internal)• Manually adjustable boom on 3 positions (800 mm) max. capacity 5,500 kg• Hydraulic boom - radio remote control only for boom movement• Man basket 100 kg (one man) - only available with radio or wired remote control• Man basket 200 kg (two man) - only available with radio or wired remote control• Fork attachment - max. capacity 3,000 kg• Paintwork on purchase at customer's request

PICK & CARRY
CRANES

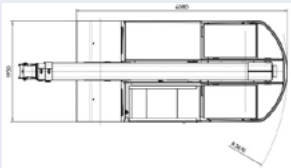
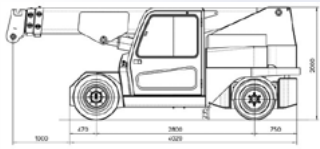
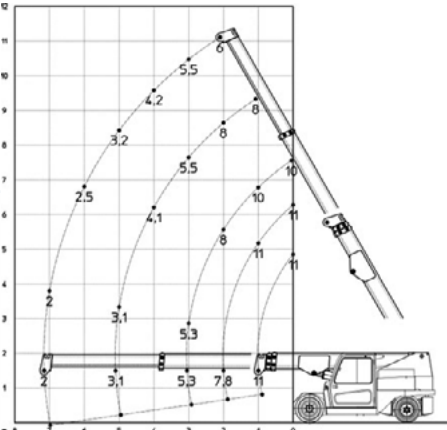
MLK 110 Up to 11 tonne capacity



Optional Equipment
(For more information see p. 363)



Compare our different
Pick & Carry cranes on 360



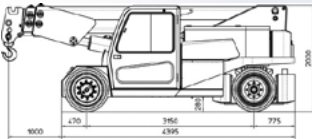
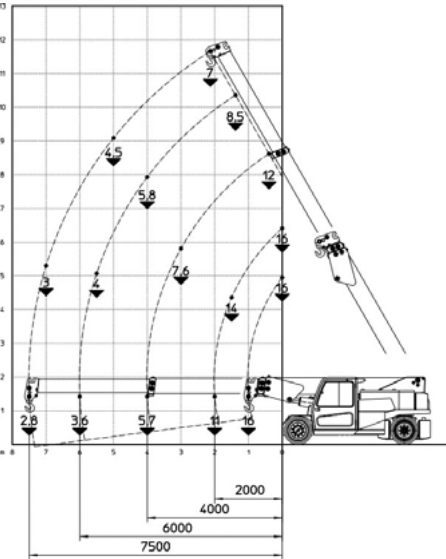
Model	MLK 110
Capacity	11,000 kg
Net Weight	13,450 kg
External Dimensions:	
L x W x H in mm	4,020 x 1,950 x 2,000
incl. crane boom	5,020 x 1,950 x 2,000
Turning Radius	3,610 mm
Boom Angle	-10° to 60°
Frame	box type, torsion resistant design made with high-strength structural steel
Power Type	Electric battery
Transmission	Front-wheel drive with countershaft
Boom	Base unit and two hydraulic extensions (proportional telescopic boom)
Traction Motor	2 electric motors n° 2 x 7.5 kW 80 V AC. Insulation class H
Battery	80 V – 840 Ah
Wheels	Front: 2 superelastic 315 x 70 – 15" Rear: 2 superelastic 250 x 70 – 15"
Brakes	Service brake: hydraulic pedal operated on all wheels, parking and emergency brake: hydraulic with automatic control
Steering	On the rear wheels by hydraulic motor controlled by hydrostatic power steering with load sensing priority valve
Hydraulic System	Powered by a 16 kW silenced gear pump, actuators controlled by electro-proportional distributor with electronic joystick, filter and safety valve. 22 MPa max. working pressure
Standard Equipment	<ul style="list-style-type: none">• Operator's cab• Working light• Warning light, fire extinguisher, safety shutdown• Declaration of conformity / CE label• User manual, maintenance schedule• Spare parts list• Standard battery charger (external)
Optional Equipment	<ul style="list-style-type: none">• Heavy load tip• Assembly tip• Pulley block 4-rope• Remote control radio• Hydraulic winch with a maximum capacity of 11,000 kg• "Non-marking" tyres• Automatic filling system for batteries• Standard battery charger (internal)• Manually adjustable boom• Radio remote control only for boom movement• Wired remote control only for boom handling• Man basket 100 kg (one man) - only available with radio or wired remote control• Man basket 200 kg (two man) - only available with radio or wired remote control• Fork attachment - max. capacity 6,000 kg• Closed operator's cab• Paintwork on purchase at customer's request

PICK & CARRY
CRANES

MLK 160 Up to 16 tonne capacity



Compare our different
Pick & Carry cranes on 360



Optional Equipment
(For more information see p. 363)



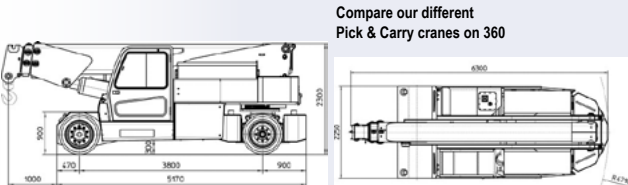
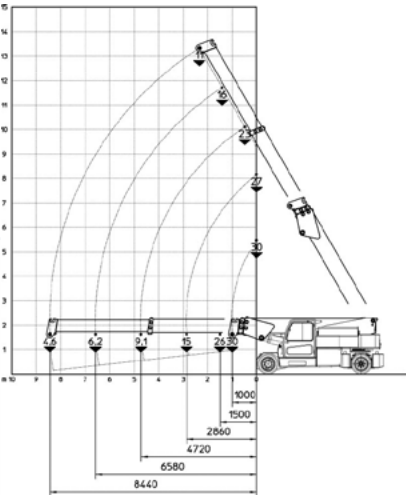
Model	MLK 160
Capacity	16,000 kg
Net Weight	27,150 kg
External Dimensions:	
L x W x H in mm	4,395 x 2,070 x 2,000
incl. crane boom	5,395 x 2,070 x 2,000
Turning Radius	3,930 mm
Boom Angle	-8° to 60°
Frame	box type, torsion resistant design made with high-strength structural steel
Power Type	Electric battery
Transmission	Front-wheel drive with countershaft
Boom	Base unit and two hydraulic extensions (proportional telescopic boom)
Traction Motor	Electric motor 2 x 10 kW 96 V. Insulation class H
Motor Pump	Electric motor 23 kW + 12 kW 96 V AC. Insulation class H
Battery	96 V – 1035 Ah
Wheels	Front axle: 4 superelastic 355 x 50 - 20" Rear axle: 2 superelastic 355 x 50 - 20"
Brakes	Service brake: hydraulic, pedal operated, parking and emergency brake: hydraulic with automatic control
Steering	On the rear wheels by hydraulic motor controlled by hydrostatic power steering with load sensing priority valve
Hydraulic System	Powered by an electric gear pump, actuators controlled through electro-proportional distributor with electronic joystick, filter and safety valve 22 MPa max pressure
Safety Devices	Electronic load limiting
Standard Equipment	Operator's cab, working light, warning light, fire extinguisher, safety shutdown, declaration of conformity, user manual, maintenance schedule, spare parts list, standard battery charger (external)
Optional Equipment	<ul style="list-style-type: none">• Heavy load tip• Assembly tip• Pulley block 4-rope• Remote control radio <p>• Additional options: Hydraulic winch with a maximum capacity of 16,000 kg, "non-marking" tyres, automatic filling system for batteries, standard battery charger (internal), manually adjustable boom, hydraulic adjustable boom from +8° to -45°, manually adjustable boom with 0° and -45°, radio remote control only for boom movement, wired remote control only for boom handling, man basket 200 kg (two man) - only available with radio or wired remote control, air cooling of the battery and the battery charger, closed operator's cab, paintwork on purchase at customer's request</p>

PICK & CARRY
CRANES

MLK 300 Up to 30 tonne capacity



Optional Equipment
(For more information see p. 363)



Compare our different
Pick & Carry cranes on 360

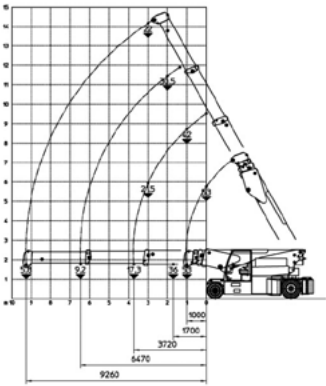
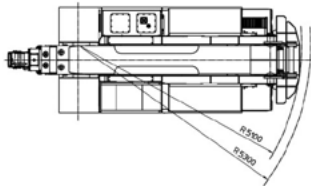
Model	MLK 300
Capacity	30,000 kg
Net Weight	27,150 kg
External Dimensions: L x W x H in mm incl. crane boom	5,170 x 2,250 x 2,300 6,300 x 2,250 x 2,300
Turning Radius	4,710 mm
Boom Angle	-7° to 60°
Frame	box type, torsion resistant design made with high-strength structural steel
Power Type	Electric battery
Transmission	Front-wheel drive with countershaft
Boom	Base unit and two hydraulic extensions (proportional telescopic boom)
Traction Motor	Electric motor 2 x 12 kW 96 V, insulation class H
Motor Pump	Electric motor 35 kW + 12 kW 96 V AC, insulation class H
Battery	96 V – 1,395 Ah
Wheels	Front axle: 4 superelastic 355 x 50 - 20" Rear axle: 2 superelastic 355 x 50 - 20"
Brakes	Service brake: hydraulic pedal operated, parking and emergency brake: hydraulic with automatic control
Steering	On the rear wheels by hydraulic motor controlled by hydrostatic power steering with load sensing priority valve
Hydraulic System	Powered by a 35 kW electric gear pump, actuators controlled through electro-proportional distributor with electronic joystick, filter and safety valve 23 MPa max pressure
Safety Devices	Electronic load limiting
Standard Equipment	<ul style="list-style-type: none">• Operator's cab• Working light• Warning light, fire extinguisher, safety shutdown• Declaration of conformity / CE label• User manual, maintenance schedule• Spare parts list• Standard battery charger (external)
Optional Equipment	<ul style="list-style-type: none">• Heavy load tip• Assembly tip• Pulley block 4-rope• Remote control radio• Additional options:<ul style="list-style-type: none">• Hydraulic winch with a maximum capacity of 30,000 kg, "non-marking" tyres, automatic filling system for batteries, standard battery charger (internal), manually adjustable boom, hydraulic adjustable boom from +8° to -45°, manually adjustable boom with 0° and -45°, remote control radio only for boom movement, wired remote control only for boom handling, man basket 200 kg (two man) - only available with radio or wired remote control, air cooling of the battery and the battery charger, closed operator's cab, paintwork on purchase at customer's request

PICK & CARRY
CRANES

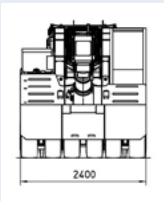
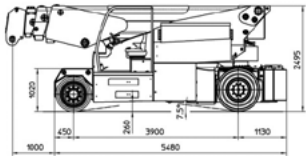
MLK 600 Up to 60 tonne capacity



Optional Equipment
(For more information see p. 363)

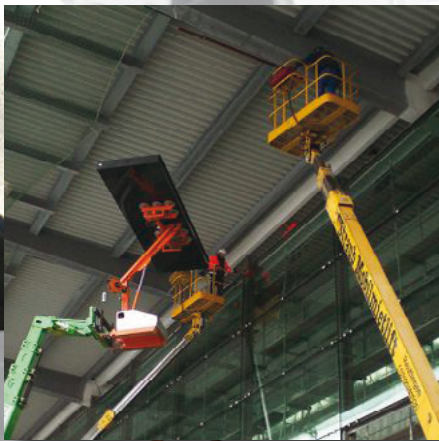


Compare our different
Pick & Carry cranes on 360



Model	MLK 600	
Capacity	60,000 kg	
Net Weight	39,000 kg	
External Dimensions: L x W x H in mm incl. crane boom	Group closed 5,480 x 2,400 x 2,495	Group open 6,480 x 2,400 x 2,495
	6,480 x 2,400 x 2,495	
Turning Radius	5,100 mm	
Boom Angle	-7° to 60°	
Frame	box type, torsion resistant design made with high-strength structural steel	
Power Type	Electric battery	
Transmission	Rear axle through epicyclic reduction gears	
Boom	Base unit and three hydraulic extensions (proportional telescopic boom)	
Traction Motor	Electric motor 2 x 24 kW 96 V. Insulation class K1H	
Battery	96 V – 1,395 Ah	
Wheels	Front axle: 6 superelastic 355 x 50 - 20" Rear axle: 4 superelastic 10.00 - 20"	
Brakes	Service brake: hydraulic pedal operated. Parking and emergency brake: hydraulic with automatic insertion electric control	
Steering	On the rear wheels by hydraulic motor controlled by hydrostatic power steering with load sensing priority valve	
Hydraulic system	Powered by a 35 kW motor pump, actuators controlled through electro-proportional distributor with electronic joystick, filter and safety valve. 22 MPa max pressure.	
Standard Equipment	Operator's cab, working light, warning light, fire extinguisher, safety shutdown, declaration of conformity/CE label, user manual, maintenance schedule, spare parts list, standard battery charger (external)	
Optional Equipment	<ul style="list-style-type: none">• Heavy load tip• Assembly tip• Pulley block 4-rope• Remote control radio <p>• Additional options: Hydraulic winch with a maximum capacity of 30,000 kg, hydraulic winch with a maximum capacity of 43,000 kg, "non-marking" tyres (rear wheels only), automatic filling system for batteries Manually adjustable boom with 0° / 25° / 50° - max. capacity 18,000 kg, manually adjustable boom with 0° / 25° / 50° - max. capacity 12,000 kg, manually adjustable boom with 0° / 45° - max. capacity 4,000 kg, assembly tip 0° / 20° - max. capacity 25,000 kg, fork attachment - max. capacity 20,000 kg, remote control radio only for boom movement, wired remote control only for boom handling Man basket 100 kg (one man) - only available with radio or wired remote control, man basket 200 kg (two man) - only available with radio or wired remote control, fork attachment - max. capacity 6,000 kg, air cooling of the battery and the battery charger, closed operator's cab, paintwork on purchase at customer's request</p>	

PICK & CARRY
CRANES

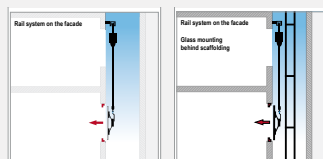
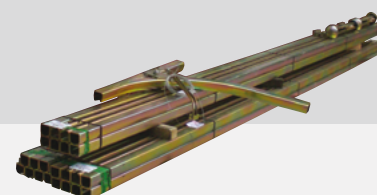


Auxiliary Equipment

- Terrain Telescopic Forklift Trucks Lifting Platforms



- Chain Hoists and Helm Rails Essential Systems



Find more information about working with helm rails and Chain Hoists from page 324

- Stair Climbers up to 1,000 kg capacity



- Counterweight cranes up to 900 kg capacity



- Manual Assembly Helpers Assembly lifts with a capacity of 800 kg and 7.9 m lift height



GTS Rotatable / rigid up to 30 m lift height



Drivable even with a 5 t load?
No problem! With the telescopic forklift truck, you can easily lift these kinds of loads up to 30 m high. Various fixtures such as the forklift, shovel, booms, winch, etc. make the vehicle even more versatile.



Too expensive to buy?
Then rent at a low cost from Heavydrive!

- The following fixtures are available with all telescope forklifts:
- Fork
 - Shovel
 - Gibbets
 - Rope winch
 -

Available with or without an operator!
Contact us for some no-obligation advice
Enquire today



Drive with loads up to 5 tonnes and a 30 m lift height

Individual solutions tailored to your needs!

Model	GTS 164.0	GTS 187.0	GTS 208.0	GTS 252.0	GTS 300.0
Max. Lift Load	6.0 t				
Max. Range	13.85 m	16.15 m	18.25 m	22.65 m	27.45 m
Max. Lift Height	16.40 m	18.70 m	20.80 m	25.20 m	30.00 m
Rotation Angle	360 ° full rotation / rigid				
Support	hydraulic				
Drivable	3 t load				
Chassis:					
Length E	5.03 m				
Ground Clearance F2	0.33 m				
Wheel Distance C	2.97 m				
Support Width L	4.95 m				
Motor:	6 cylinder Turbo diesel				
Speed	107 KW at 2300 RPM				
1st gear	11 km/h				
2nd gear	20 km/h				
Tank Volume	155 l				
Dimensions:					
Length acc. to Model A	6.07 m - 6.98 m				
Width H	2.40 m				
Height P	2.95 m				
Safety System	Sensor monitoring Touchscreen system Permanent all-wheel drive				
Options / Attachments	Load fork, gibbets, electric rope winch, lifting platform, folding assembly tip				

AUXILIARY EQUIPMENT

Lifting Platforms Up to 70 m lift height



Depending on the model, our platforms have a lift height of up to 70 m and basket capacity of up to 1,000 kg.



Scissor / Telescopic /
Jointed Telescopic / HGV
platforms and more
Indoor and outdoor!
Contact us today:
+49 (0)9070 9689690 - 0



Find more images and videos of our devices in action at www.heavydrive.com



Metzingen Outlet Centre



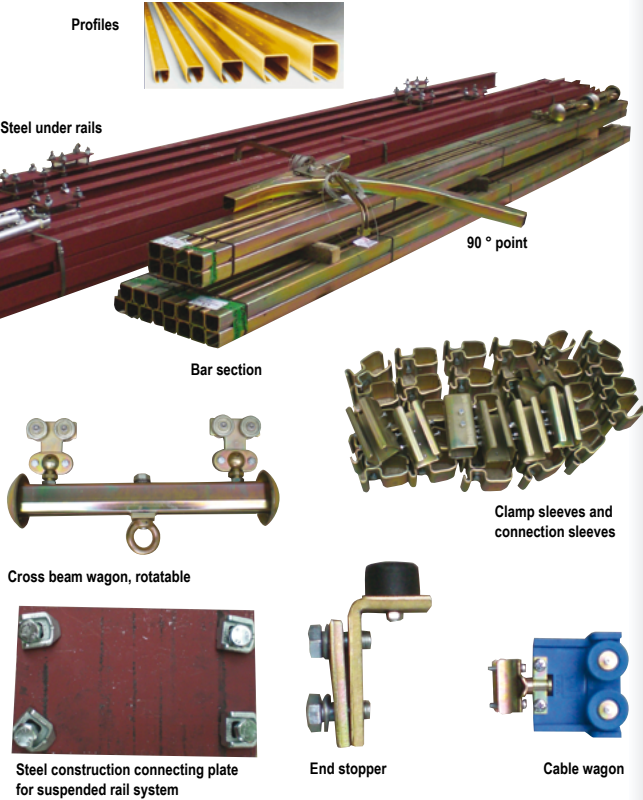
Research Centre in Grenoble (France)



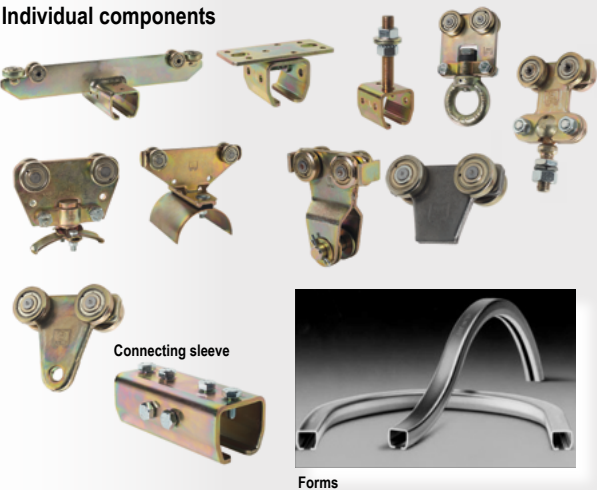
Conference Hall in Stuttgart, Germany

Model	SB / TB / GTB / LB
Basket Load	up to approx. 1,000 kg
Max. Range	22.70 m
Max. Lift Height	Varies acc. to model
Model / Max. Working Height:	
Scissor platform	SB 340.0 / up to 34 m Ah
Telescopic platform	TB 700.0 / up to 70 m Ah
Jointed telescopic platform	GTB 380.0 / up to 38 m Ah
HGV platform	LB 340.0 / up to 34 m Ah
Specifications	
with supports	low unladen weight
without supports	high unladen weight
Degree of Running Gear Lock	up to 85°
Drivability:	
Normal terrain	4-wheel drive
Uneven terrain	Rubber chains
Rough terrain	Steel chains
Support Width L	4.95 m
Motor:	
Electric	Battery operated
Induction	Battery operated (lasts about 1 week)
Fuel	Diesel
Transport Method:	
Model SB TB GTB	Transport vehicle / Low loader
Model LB	Self driver
Safety System	
	Sensor monitoring
	Touchscreen system
	Permanent 4-wheel drive

HSS - Running rail system for facade mounting
up to 1.600 kg Capacity

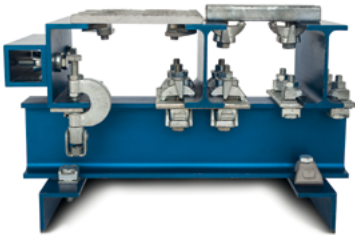


Individual components



Clamping system KS

For the ability to securely connect the HSS rail system to the ceiling or to the existing steel beam ceiling construction, Heavydrive offers a **special world-wide-approved KS clamping system**.



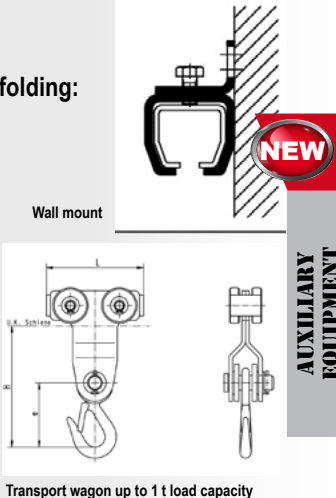
These clamps, supplied by Heavydrive, **connect the on-site steel beams with crossbeams**. Only then can the HSS rail system, with up to 1,400 kg of load capacity, be mounted.

A major advantage of the clamp holders is that they **prevent damage** to the on-site construction due to **drilling or welding**.



Façade assembly for
overhang façades with scaffolding:

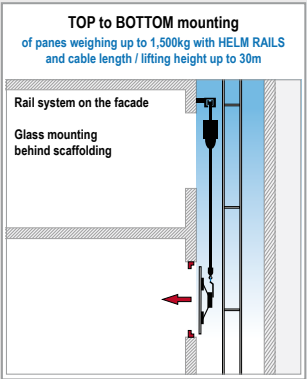
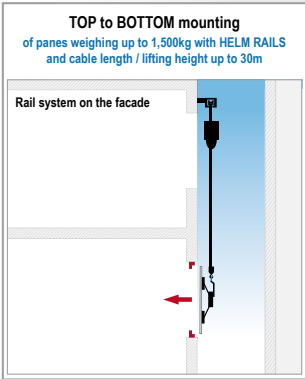
- Please tell us about:
- the load to be lifted
 - the façade length
 - the overhang width
 - if mounting on scaffolding or façade
 - the round façade
 - the insertion opening



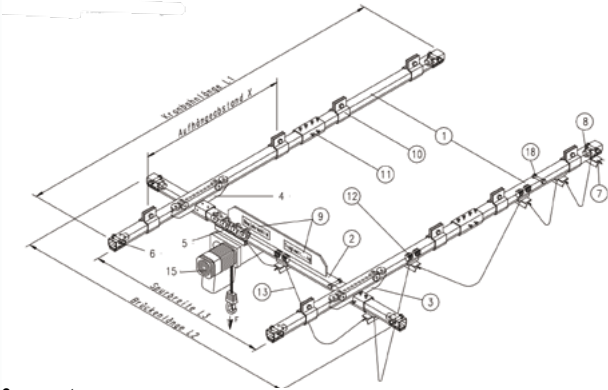
Consider inviting us
for an on-site inspection!!

Plans for façade construction and industrial plant construction

We would be happy to prepare the plans for you, e.g. for 1,000 façade elements / car parts / industrial goods, each weighing 50 - 1,600 kg.



Example of a small crane system



Components

- | | |
|--|--------------------------------------|
| 1 Crane rail - two-stranded | 10 Attachment |
| 2 Crane bridge - reinforced | 11 Connection |
| 3 Sliding platform - Rolling device - Fixed bearing | 12 Cable and hose carrier wagon |
| 4 Sliding platform - Rolling device - Floating bearing | 13 Trailing cable |
| 5 Bridge trolley travelling winch | 14 Alternative safety conductor line |
| 6/8 End-stopper/Securing for end-stopper | 15 E-chain hoist with hanger switch |
| 7 End terminal | 16 E-rail drive and crane runway |
| 9 Capacity and built-shield | 17 Mains switch |
| | 18 Driving limiter |

Send us your drawings or your plans indicating which goods you wish to transport / ship. We will work with you to create a solution, including a detailed list of the parts you need.

You will benefit from our international experience in planning rail transport systems, conveyor systems and small cranes for renowned car makers and façade builders, as well as for many other operational purposes...



Let us
advise you
and do the
planning for you

AUXILIARY
EQUIPMENT

MKZ - Up to 2,000 kg capacity and 30 m lift height

There are as many different chain hoists as there are grains of sand in the desert, but a truly professional model is costly - and not necessarily worth the cost for a few jobs throughout the year.

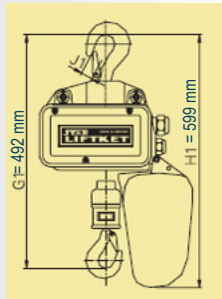
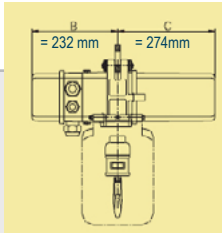
So what about renting?

We'll guarantee the right model for you. An excellent example is the following model, with 2,000 kg capacity at a 15 m lift height. Get in touch!



Just rent if required - We are happy to offer professional advice!

Model	MKZ 500 - 4	MKZ 500 - 6	MKZ 500 - 15	MKZ 500 - 25		MKZ 500 - 30	MKZ 1000 - 30	MKZ 2000 - 15
Max. Lift Height	4 m	6 m	15 m	25 m		30 m	30 m	15 m
Max. Capacity	500 kg	500 kg	500 kg	500 kg		500 kg	1,000 kg	2,000 kg
Net Weight	30 kg	30 kg	55 kg	60 kg		70 kg	70 kg	70 kg
Chain Storage	4 m	6 m	15 m	25 m		30 m	30 m	15 m
Lift Speed	6/1,5 m/min. 1-Rope					6/1,5 m/min. 1-Rope		
Load Chain	7,2 mm x 21 mm					7.2 mm x 21 mm		
Operating voltage	380 V					380 V		
Duty Cycle	60/25					60/25		
Start ups/h	240					240		
Control Cable	4 m	6 m	15 m	25 m		30 m	30 m	15 m



AUXILIARY EQUIPMENT

TT - Up to 300 kg capacity

For heavy household appliances, dryers, washing machines, radiators, slot machines, or similar equipment that must be transported up or down stairs.

Battery-powered stair climbers can go anywhere, with loads up to 300 kg. They are also called "sack trucks" or "stair climbing trolleys".

The ingenious design provides a transport aid for stairs which does not cause back problems. Easy to use by a single person and very durable.



Model	TT 300	TT 300 ST with support wheels
Capacity	300 kg	300 kg
Running Gear		Hydrostatic, infinitely variable
Speed	6 - 12 m/min	12 m/min
Climb Ability	Step height up to 22 cm	
Max. Driving Distance	-	-
Drive Cylinder Working Pressure	110 - 130 bar	
Motor Power	1.2 - 1.4 KW	
Motor	Battery operated	
Battery	Internal battery	
Charging Voltage	110 V / 220 V	
Operation	Single operator	
Staircase Approach	Infinitely variable	
Control	-	-
Length	Can be adjusted via shovel fixture	
Dimensions:		
L x W x H (mm)	485 x 560 x 1,615	
Height (mm)		
Steering	Can be adjusted via shovel fixture	
Net Weight	38 kg	
Optional	<ul style="list-style-type: none">• Shovel fixture with two steering castors• Car charger for battery station• Quick change battery	



Find more images and videos of our devices in action at www.heavydrive.com

Optionals and Accessories



AUXILIARY EQUIPMENT

TT - Up to 1,000 kg capacity

These machines are suitable for transporting heavy loads of up to 1,000 kg, overcoming obstacles such as steps and ramps. Heavy loads (such as switch and server cabinets, safes, boilers, parts of machinery and systems, etc.) can therefore be delivered up and down stairs, even by a single person.



TT 600 Standard



The TT 1000 in action

- Perfect for transporting liquid goods
- Material always upright

Model	TT 600 S Standard	TT600 H for transporting liquids	TT600 V specifically for lifting loads off the ground	TT 1000 liftable platform, loading ramp, roller block, rotating cup
Load capacity	600 kg	600 kg	600 kg	1,000 kg
Carriage	Hydrostatic, infinitely variable			Hydrostatic, infinitely variable
Speed		12 m/min		3 m/min
Gradeability		max. 45 °		max. 45 °
Max. travel distance		50 floors		endless
Engine power		1.2 - 1.4 KW		0.75 KW
Motor		Electric motor		Electric with cable
Battery		2 x 12 V		4 x 12 V
Charging voltage		110 V / 220 V		110 V / 220 V
Operation		Single operator		Single operator
On or off stairs		Infinitely variable		Auxiliary device included
Control		Remote control with switch		Remote control with switch
Load length		Infinitely adjustable		Infinitely adjustable
Dimensions:				
External dimensions L x W x H		1,280 x 540 x 325 mm		1,185 x 720 x 320 mm
Construction / lifting height (mm)		325 - 700 mm		320 mm
Control		Detachable control panel		Cable remote control
Weight		275 x 345 kg		165 kg
Optional	Platform can move horizontally	• Drivable spiral staircase • Drive line corrector • Lift goods off the ground • Transport liquids • Wide lashing belt		Battery power incl. 2 speeds



TT 1000



TT 600 H
Lift goods from the ground



TT 600 V Transport liquid
goods

AUXILIARY
EQUIPMENT

KGK 745 lifting capacity up to 745kg

KGK 745 – short option for lifting up to 745kg. Static, hook in front



The KGK 745 counterweight crane is a practical solution for transporting panes at ground level. The counterweight makes it possible to manoeuvre a load right up to its installation point.

It is powerful enough to move panes weighing up to 745kg. This device requires more than one operator. For devices that enable one-person operation, we recommend our ML assembly aids (from page 48) or GMG glass assembly devices (from page 58).

The device has six wheels, making it simple to manoeuvre. The wheels rotate freely, so you can move the device in all directions.

The crane arm is inserted manually. The device is fitted with a 1.3m extension that can be set to nine different positions. A 2.3m extension is available as an optional extra (see page 340)



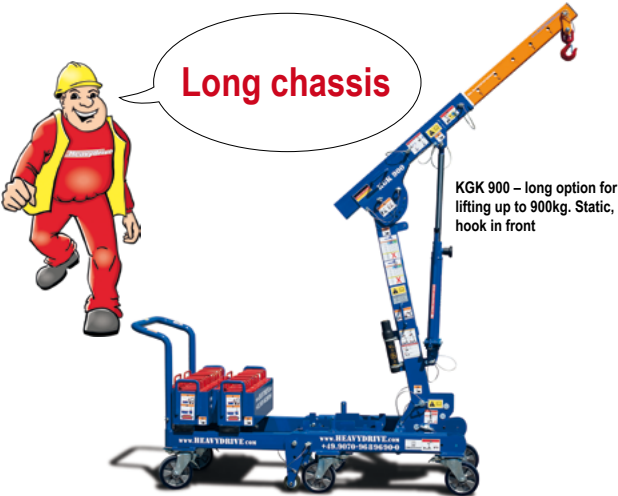
Two boxes each with 14 counterweights

KGK 745	
Lifting capacity	up to 745kg
Lifting capacity at a distance of 40cm	745kg
Dynamic load capacity	463kg
Lifting capacity when fully extended	160kg
Chassis	short
Crane arm	nine positions, 14cm per extension
Reach over chassis	1.40m
Min. lifting height	0.77m
Max. lifting height	2.90m
Weight	168kg excl. attachments
Total weight	644kg incl. counterweight
Counterweights	2 boxes each with 14 counterweights (28 x 16kg)
Chassis frame	L 1.06m x W 0.65m x H 1.8m
Working dimensions	L 1.06m x W 0.65m x H 1.98m
Width	incl. lateral arm max. 2.65m
Other	can be fully dismantled individual parts must be carried up and down stairways chassis equipped with 6 freely rotating wheels with brakes removable handles chassis compact for transportation can be folded and dismantled

NEW

AUXILIARY EQUIPMENT

KGK 900 lifting capacity up to 900kg



The long option KGK 900 counterweight crane has a lifting capacity of up to 900kg and is a practical solution for transporting panes at ground level.

The counterweight makes it possible to manoeuvre a load right up to its installation point. It is powerful enough to move panes weighing up to 900kg. This device requires more than one operator. For devices that enable one-person operation, we recommend our ML assembly aids (from p.48) or GMG glass assembly devices (from p.58).

The device has six wheels, making it simple to manoeuvre. The wheels rotate freely, so you can move the device in all directions.

The crane arm is inserted manually. The device is fitted with a 1.3m extension that can be set to nine different positions. A 2.3m extension is available as an optional extra (see page 340).



The KGK can be fully dismantled. It can be conveniently transported and easily carried up and down stairways by one or two people by hand, without the need for a crane.

This is especially useful if there is no crane available on the construction site.

The KGK is also ideal for buildings that are difficult to access from the outside.

For indoor and outdoor use

When in use indoors, the KGK 900 has brakes with directional locking, which means the device can safely be brought to a complete stop, even on a sloped surface.



A base plate has also been designed for the KGK 745 to make it suitable for outdoor use.

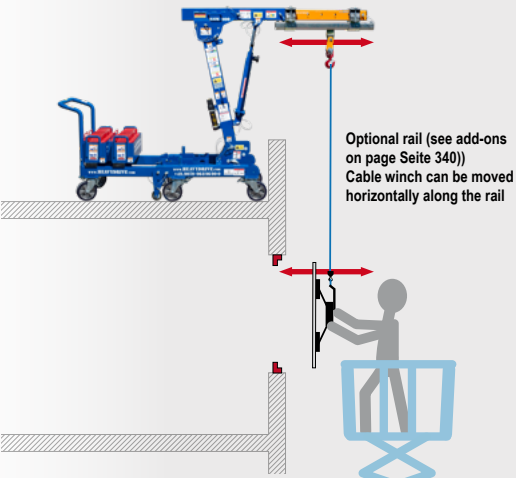
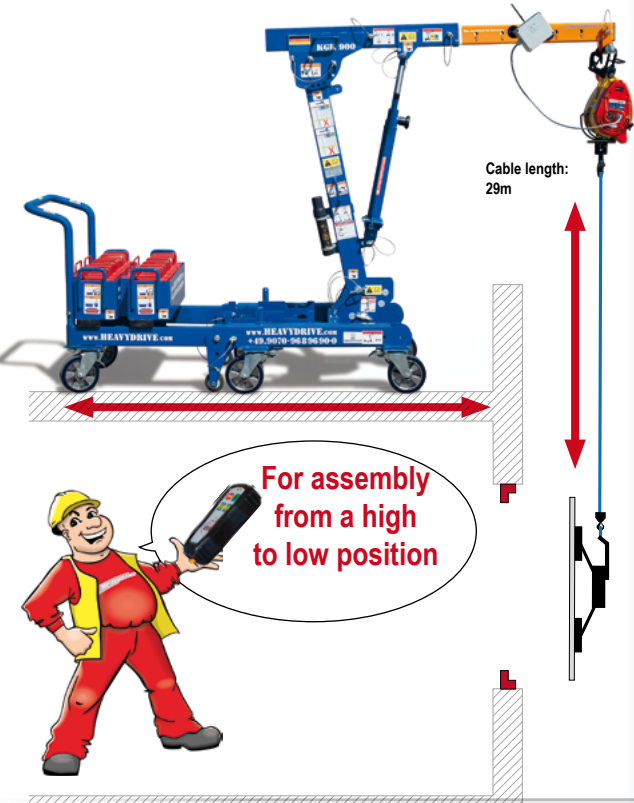
The front two pendulum wheels can be replaced by extra-large, solid rubber tyres with a diameter of 400mm to counterbalance uneven terrain. (This modification kit is available as an add-on on page 336.) The outdoor wheels are fixed and can move backwards or forwards. Locking brake not included.

KGK 900	
Lifting capacity	up to 900kg
Lifting capacity at a distance of 40cm	900kg
Dynamic load capacity	463kg
Lifting capacity when fully extended	160kg
Chassis	long
Crane arm	nine positions, 14cm per extension
Reach over chassis	1.40m
Min. lifting height	0.77m
Max. lifting height	2.90m
Weight	168kg excl. attachments
Total weight	644kg incl. counterweight
Counterweights	2 boxes each with 14 counterweights (28 x 16kg)
Chassis frame	L 1.78m x W 0.65m x H 1.8m
Working dimensions	L 1.78m x W 0.65m x H 1.98m
Width	incl. lateral arm max. 2.65m
Other	can be fully dismantled individual parts must be carried up and down stairways chassis equipped with 6 freely rotating wheels with brakes removable handles chassis compact for transportation can be folded and dismantled

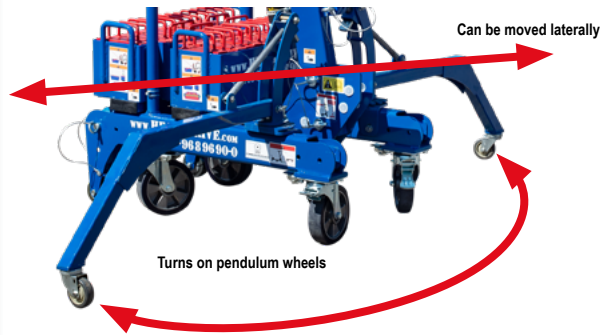
NEW

AUXILIARY EQUIPMENT

KGK 900 with cable winch
up to 500kg lifting capacity (with dynamic load)



Can be rotated in any direction and braked in any position.
Can be manoeuvred while carrying a load and locked into any position, even on a slope.
Directional locking, snapped into place every 90 degrees, or track locking can be used.
The device can be brought to a stop in a precise spot. It will not be able to rotate on the axis of a wheel because the directional locking brake brings it to a complete stop.



KGK 900 with cable winch	
Lifting capacity	up to 500kg
Lifting capacity at a distance of 40cm	500kg
Dynamic load capacity	463kg
Lifting capacity when fully extended	160kg
Chassis	long
Crane arm	nine positions, 14cm per extension
Reach over chassis	1.40m
Min. lifting height	0.77m
Max. lifting height	2.90m
Weight	168kg excl. attachments
Total weight	644kg incl. counterweight
Counterweights	2 boxes each with 14 counterweights (28 x 16kg)
Chassis frame	L 1.78m x W 0.65m x H 1.8m
Working dimensions	L 1.78m x W 0.65m x H 1.98m
Width	incl. lateral arm max. 2.65m
Other	can be fully dismantled individual parts must be carried up and down stairways chassis equipped with 6 freely rotating wheels with brakes removable handles chassis compact for transportation can be folded and dismantled

NEW

AUXILIARY
EQUIPMENT

KGK add-ons



Cable winch with cable control (2m cable length)

SZ 500-29 500kg cable winch

Cable winch with 500kg lifting capacity
 29m cable with cable guide
 Power 230V
 Weight 30kg
 Dimensions 400mm x 400mm
 Output 1800W / 7A
 Cable speed 12m/min
 Steel cable
 Wireless remote control
 Or cable remote control (2m cable)
 Cable winch is attached to the KGK extension
 Cable remote control



Cable winch with wireless control

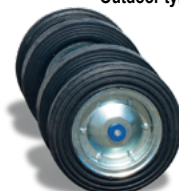
**Outdoor wheels**

When in use outdoors, the front wheels are replaced by solid rubber tyres that can counterbalance uneven terrain.

The front wheels move forwards and backwards and cannot be braked.



Outdoor tyres



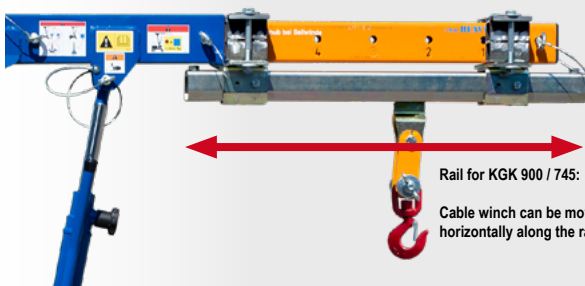
Outdoor tyres

AS23 for KGK 900

Extra-long extension for the KGK 900
 Reach over chassis max. 2.3m
 265kg lifting capacity when fully extended



Delivery in stable Transport frame



Rail for KGK 900 / 745:

Cable winch can be moved horizontally along the rail

**KGK lateral support legs for uneven terrain**

suitable on very uneven surfaces
 one set contains 2 support legs
 adjustable
 depending on width of working area
 Length 935mm, Weight 38kg
 self-locking

NEW**AUXILIARY
EQUIPMENT**

ML 51.0 Assembly lift with a lift height of 5.15 m and a capacity of 360 kg. Only 1.76 m high!



Very small dimensions - only 1.76 m high

Incl. 9 x 16 kg counterweights

For options and features see "ML Accessories" from page 348



Model	ML 51.0
Capacity	360 kg
Lift Height	5.15 m
Carriage	Castors for solid floors, limited off-road suitability
Net Weight	144 kg
Transport Dimensions (LxWxH) in mm	1,080 x 755 x 1,760
Net Weight incl. 9 x 16 kg counterweights	288 kg
Add-on device:	
Crane jib	Adjustable crane jib 420 - 660 mm
Load fork	670 mm tooth length, 550 mm wide
Options	Mast lift via translation unit with 3 speeds using hand crank or cordless screwdriver
Accessories	See "ML Accessories" from p.44
Transport	Fits in a van standing

Heavydrive® delivers different models with lift heights of 1.7 m, 2.8 m, 4 m and 5.1 m on request.
Find more information at www.heavydrive.com.

Lift large loads from a small base

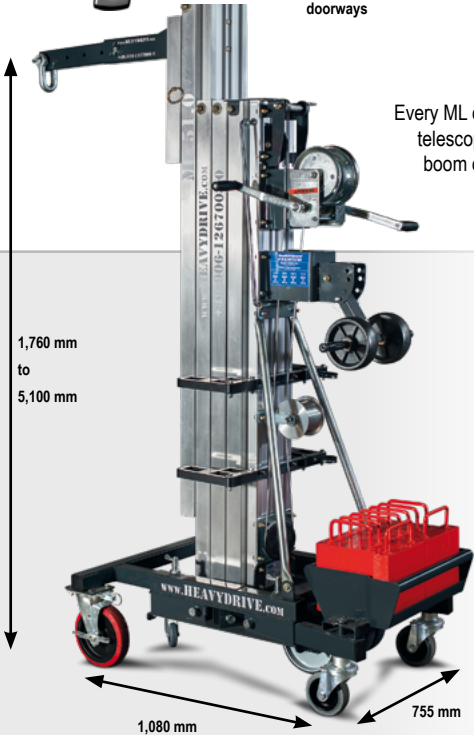
This assembly lift is extremely narrow and its quality unmatched. Its small dimensions are highly suited to easily assuming a safe position in narrow spaces and moving around comfortably.

Movable under a 360 kg load
Ultra narrow and manoeuvrable



Telescopic assembly boom adjustable from 42 to 66 cm

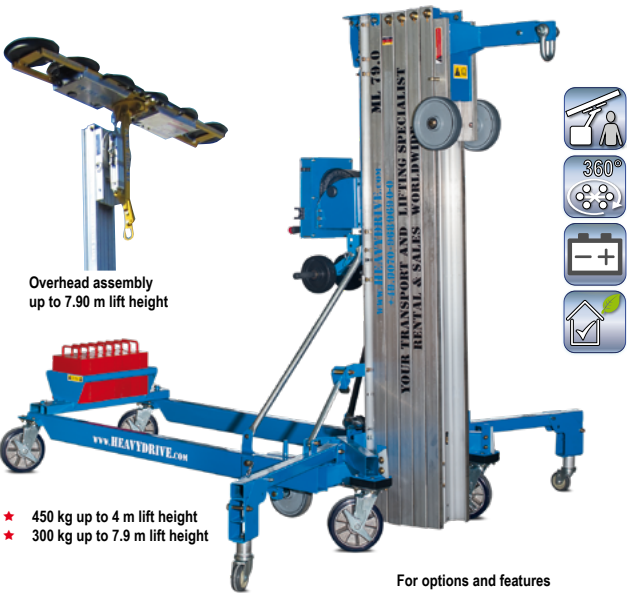
Fits through doorways



Every ML comes with a telescopic assembly boom or a load fork

AUXILIARY EQUIPMENT

ML 79 Assembly lift with a lift height of 7.9 m



For options and features see "ML Accessories" from page 348

Model	ML 79.0
Max. load capacity	450 kg (up to 4 m), 300 kg
Working height	7.90 m
Carriage	Wheels for solid ground, partially suitable for all-terrains
Weight	200 kg
Working position	L 2,220 x W 2,140 mm
Transport dimensions (LxWxH)	960 x 840 x 2,004 mm
Total weight including 8 counterweights at 16 kg	332 kg
Attachments:	
Load fork	420 - 660 mm
Fork	600 mm wide by 800 mm long fork
Crane boom	300 kg load capacity, lifting up to 30 m
Overhead manipulator	load capacity up to 450 kg
Standard equipment	4 wheels for each standard fork 1 - speed manual winch
Options	Mast lift via translation unit with 3 speeds using hand crank or cordless screwdriver
Overhead Suction System	load capacity up to 450 kg
Transport	in a pick-up truck

With Heavydrive®, you can request different designs and models for lifting heights of 3.50 m, 5.0 m, 6.5 m and 7.9 m.

Further information can be found at www.heavydrive.com

Movable under a 450 kg load.
Compact equipment with many features!
Ex-warehouse delivery!

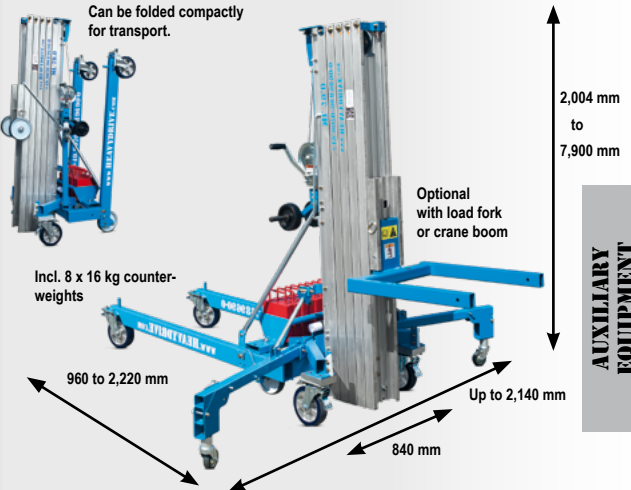


ML79 assembly lift and overhead vacuum suction system in a narrow space

This assembly lift is brilliant. With a fantastic lift height of 7.9 m, it helps to safely manoeuvre loads of up to 300 kg (from a height of 4 m).

One of the undeniable advantages of this assembly lift is that during glass pane mounting, the vacuum suction cups can be moved to the façade problem-free since Heavydrive® uses counter weights. With conventional lifts, for exhibition stand construction or sound engineering, the lifting carriage is below the lifted object.

Last but not least, this practical all-rounder is folded by hand. It is hand-operated and therefore requires very little servicing.



AUXILIARY EQUIPMENT

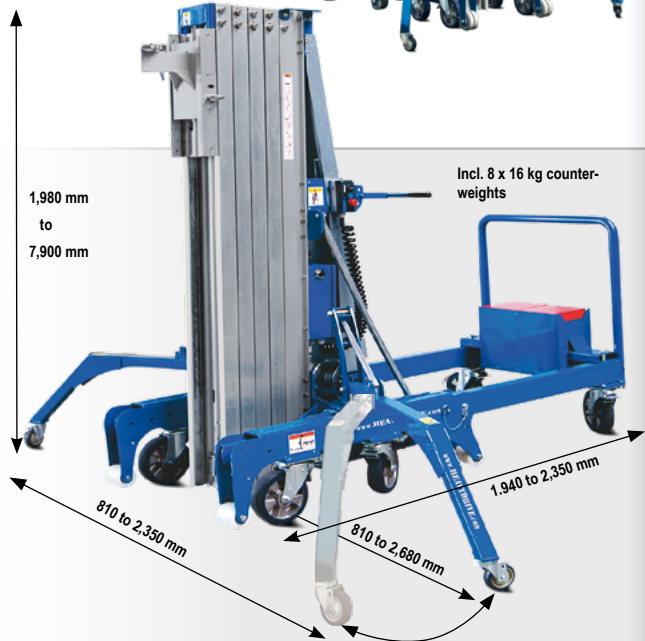
ML 79 - 800 Assembly lift with a lift height of 7.9 m and a capacity of 900 kg



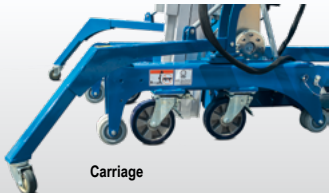
For options and features see "ML Accessories" from page 348



Optional with load fork or crane boom



Counterweight



Carriage

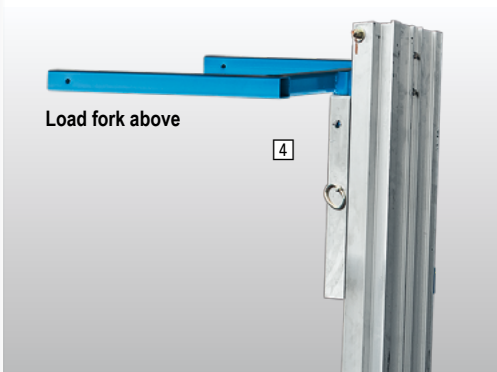
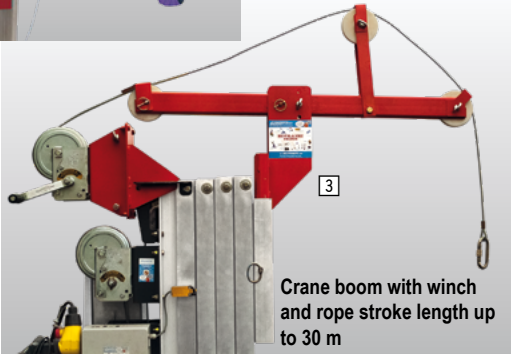
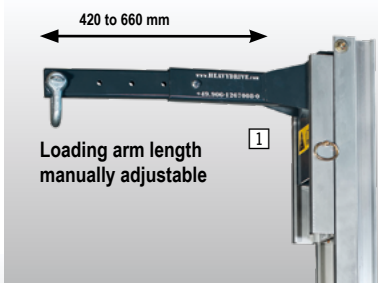
Model	ML 79.0-800
Capacity	900 kg (up to 3.5 m), 850 kg (up to 6.5 m), 800 kg (up to 7.9 m)
Lift Height	7.90 m
Carriage	Castors for solid floors, limited off-road suitability Jib feet at front: Carriage L 2,350 mm x W 2,350 mm Jib feet at rear (90° to the side): Carriage L 1,940 mm x W 2,680 mm
Working position with no jib feet	L 1,940 x W 810 x H 1,980 mm
Transport Dimensions (LxWxH) in mm	1,100 x 810 x 1,980 mm
Net Weight incl. 8 x 16 kg counterweights	543 kg (up to 595 kg depending on mast lift drive type)
Options:	See "ML Accessories" from p.44
Standard	each including 4 steering rollers standard load fork 1 - gear winch Lugs for transport via forklift bags forklift pockets
Overhead Suction System	Up to 600 kg capacity
Transport	Fits in a van

Heavydrive® delivers different models with lift heights of 3.5 m, 5.0 m, 6.5 m and 7.9 m on request.
Find more information at www.heavydrive.com

NEW

AUXILIARY EQUIPMENT

Accessories for ML

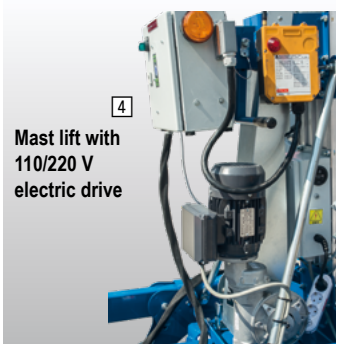
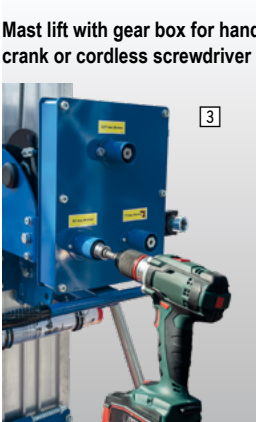
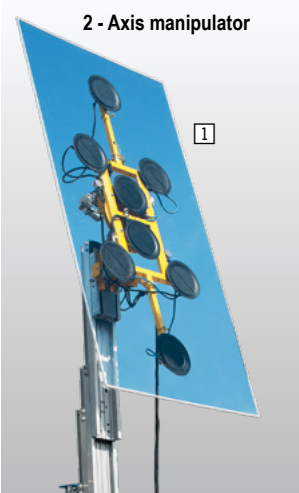


Optimal and ready-to-use
for any construction site situation
with the right equipment!

Attachments:	Description:	ML 51.0	ML 79.0	ML 79.0- 800
1 Loading Arm / Manual Load Arm	up to 2-3 steps 420 - 620 mm	x	x	x
2 Loading Arm / Electro-Hydraulic	electro-hydraulically retractable 420 - 620 mm	x	x	x
3 Manual crane boom	300 kg of load capacity, up to 30 m hoist rope, 67 cm long boom	x	x	x
4 Load fork above	600 mm wide by 800 mm long fork for overhead mounting	x	x	x
5 Load fork below				

Further information can be found at www.heavydrive.com

Accessories for ML



Attachments:	Description	ML	ML	ML
		51.0	79.0	79.0-800
1 2 - Axis manipulator automatic VSGU 600 K	elec. 90° tilt up/down, electr. full rotation			x
2 3 - Axis manipulator manual VSGU 450 K	90° tilt up/down infinitely variable lockable, full rotation, 45° lockable, swivels sideways at 45° to the left / right	x	x	x
3 Mast lift with gear box for hand crank or cordless screwdriver	3 speeds, slow / medium / fast	x	x	x
4 Mast lift with 110/220 V electric drive	Remote control on / off with 2 speeds			x
5 Mast lift with battery drive	Battery pack with detachable wagon			x

Further information can be found at www.heavydrive.com

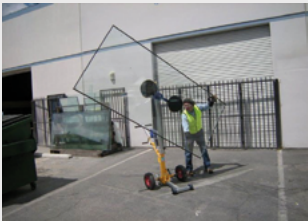
GH 150 / GH 200 - Glass lifting device up to 200 kg capacity

The GH 200 glass lifting device is an innovative solution for loading and unloading, transporting and assembling glass.

Two persons can transport glass panels or window elements weighing up to 200 kg. The GH is available in 2 model versions:

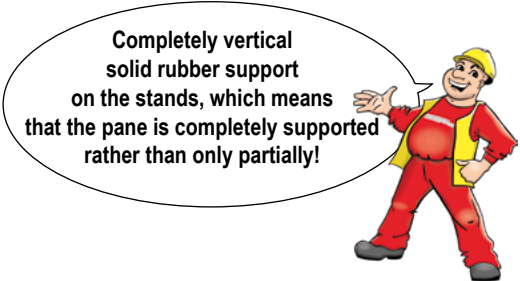
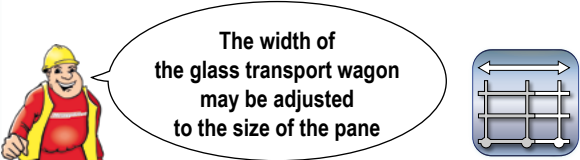
- GH 150 with up to 150 kg capacity (weight: 56 kg)
- GH 200 with up to 200 kg capacity (weight: 56 kg)

The device can be easily assembled and disassembled – it weighs only 56 kg. It has large 13-inch wheels which allow it to move on uneven surfaces. The wheelbase can be adjusted, which enables it to pass through doors and move along narrow pavements.



HDL Glass Transport Wagon Overview

Glass Transport Wagon:	HDL up to 500 kg capacity	HDL up to 700 kg capacity	HDL up to 1,000 kg capacity
HDL "Air" with pneumatic tyres	from p.228	from p.238	-
HDL for heavy panes	from p.246	from p.252	from p.353



AUXILIARY EQUIPMENT

Vacuum Suction Systems:	VSG for light panes up to 900 / 1,000 kg	VSG for medium weight panes up to 1,500 kg	VSG for heavy panes more than 2,000 kg
VSG for flat glass	from p.96	from p.114	from p.122
VSG ...KR for curved panes	from p.144	from p.146	from p.148
VSG ... KRSP for spherical curved panes	from p.154	from p.156	
VSGW for glazing in winter up to -20°C	from p.160	from p.163	from p.164
VSGP for wall and roof panels	from p.166		
VSGH hall vacuum systems	from p.168		
VSGB for coated panes	from p.170	from p.173	from p.174
	from p.176	from p.179	from p.180
VSGS for stone slabs and rough surfaces			
SPECIAL SYSTEMS			
VSG...KL for glass fins	from p.186	from p.188	from p.190
VSG...KRQ for diagonally-curved panes	from p.192	from p.195	
VSG...Konter Counterweight systems	from p.198	from p.204	
VSGU Overhead crane manipulator	from p.82	from p.84	from p.86
VSGSTU 7-axes manipulator with forklift hook	from p.88		

You can find more information about the devices in the catalogue and by visiting our website at www.heavydrive.com

To quickly find the right device for your needs, use our
Heavydrive device finder at www.devicefinder.com

Model	MRK 55.0	MRK 56.0	MRK 86.0	MRK 88.0	MRK 93.0	MRK 126.0	MRK 144.0
For more details see	page 272	page 274	page 276	page 278	page 280	page 282	page 284
Capacity	1.0 to x 1.1 m	1.7 to x 1.0 m	2.8 to x 1.4 m	2.9 to x 1.4 m	2.9 to x 1.5 m	3.0 to x 2.5 m	2.9 to x 2.5 m
Max. Hook Height	5.5 m	5.5 m	8.6 m	8.8 m	9.3 m	12.2 m	14.9 m
Incl. tip S1	6.8 m with 0.8 m tip	6.3 m with 0.8 m tip	10.5 m with 1 m tip	10.7 m with 1 m tip	11.7 m with 2 m tip	15.2 m with 2 m tip	17.7 m with 2 m tip
Incl. tip S2			11.5 m with 2 m tip	11.7 m with 2 m tip		17.2 m with 4 m tip	19.8 m with 4 m tip
Max. Working Radius	5.10 m	5.10 m	8.21 m	8.14 m	8.38 m	12.16 m	14.40 m
Cable	IWRC 6 mm x 39 m	IWRC 6 mm x 39 m	IWRC 7 mm x 48 m	IWRC 8 mm x 59 m	IWRC 8 mm x 73 m	IWRC 8 mm x 73 m	IWCR 8 mm x 77 m
Telescopic System:							
Boom Length	1.85 - 5.30 m	1.55 - 5.50 m	2.54 - 8.58 m	2.53 - 8.65 m	3.18 - 8.71 m	3.70 - 12.49 m	3.63 - 14.61 m
Telescoping Speed	3.45 m / 14 sec	3.62 m / 15 sec	6.04 m / 22 sec	6.12 m / 20 sec	5.53 m / 16 sec	8.79 m / 26 sec	10.98 m / 23 sec
Boom Type	3-stage, hydraulic telescopic boom	3-stage, hydraulic telescopic boom	4-stage, hydraulic telescopic boom	4-stage, hydraulic telescopic boom	4-stage, hydraulic telescopic boom	4-stage, hydraulic telescopic boom	5-stage, hydraulic telescopic boom
Boom Angle	0° - 75° (12 sec)	3° - 77° (12 sec)	0° - 80° (14 sec)	0° - 78° (11 sec)	0° - 78° (11 sec)	0° - 80° (14.3 sec)	0° - 78° (11 sec)
Turning Angle	360° continuous	360° continuous	360° continuous	360° continuous	360° continuous	360° continuous	360° continuous
Turning Speed	1.8 RPM	2.0 RPM	2.3 RPM	1.5 RPM	1.5 RPM	2.4 RPM	2.5 RPM
Cable Speed	4.0 m/min (4-fall)	8.0 m/min (4-fall)	8.0 m/min (4-fall)	10.0 m/min, (4-fall)	13.5 m/min (4-fall)	12.3 m/min (4-fall)	17.0 m/min (4-fall)
	16.0 m/min, (1-fall)	32.0 m/min, (1-fall)	32.0 m/min, (1-fall)	40.0 m/min (1-fall)	54 m/min, (1-fall)	49.2 m/min, (1-fall)	
Supporting Feet							Fully hydraulic
Running Gear							
System					- none -		
Drive							
Speed	0 - 2.4 km/h	0 - 3.3 km/h	0 - 2.2 km/h	0 - 2.3 km/h	0 - 5.0 km/h	0 - 2.8 km/h	0 - 3 km/h
Gradability	20°	20°	45°	20°	20°	45°	23°
Running Gear Length	1,044 mm	1,044 mm	1,750 mm	1,050 mm	1,650 mm	1,750 mm	1,750 mm
Ground Pressure	0.20 kg/cm²	0.34 kg/cm²	0.44 kg/cm²	0.49 kg/cm²	0.44 kg/cm²	0.36 kg/cm²	0.34 kg/cm²
Chain Width	180 mm	200 mm	200 mm	180 mm	180 mm	300 mm	300 mm
Motor	Yanmar air cooled	Mitsubishi GM401LE	Yanmar air cooled	Mitsubishi 13PS	Yanmar	Yanmar	Mitsubishi
Type							Diesel 24.5 PS
Performance	5.7 KW / 1,800 RPM	6.6 KW / 1,800 RPM	6.6 KW / 2,600 RPM	9.6 KW / 2,500 RPM	21.5 KW / 2,400 RPM	15.2 KW / 2,500 RPM	14.0 KW / 2,100 RPM
Fuel	Petrol and electric	Petrol and electric	Diesel and electric	Petrol and electric	Diesel	Diesel and electric	Diesel and electric
	380 V	380 V	380 V	380 V	380 V	380 V	
Tank Capacity	6 l	12 l	12 l	12 l	42 l	40 l	40 l
L	1,980 mm	2,000 mm	2,715 mm	2,690 mm	4,020 mm	4,285 mm	4,340 mm
x W	600 mm	x 590 mm	x 750 mm	x 600 mm	x 1,740 mm	x 1,280 mm	1,300 mm
x H	x 1,305 mm	1,300 mm	x 1,440 mm	x 1,380 mm	x 2,495 mm	x 1,695 mm	x 1,800 mm
Net Weight	1,050 kg	1,290 kg	1,900 kg	1,850 kg	4,500 kg	3,900 kg	4,000 kg
Safety Systems	Load torque limiter, boom angle and load gauge, hydraulic pressure safety valve, hook securer, self-locking brake for the motor, winch cut out by over rewing, levelness gauge						
Options	Non-marking rubber track, 1 fall/2 fall/4 fall hook block, assembly tips, overhead assembly cap, remote control radio, additional 380/400 V electric drive (-E), heavy load tip, heavy load underlay plates						



2 tonnes
movable
under load



2 tonnes
movable
under load



500 kg movable
under load



500 kg movable
under load

The largest mini crane in the
world: 10-tonne capacity
1.5 tonnes movable under load



Model	MRK 158.0	MRK 163.0	MRK 167.0	MRK 168.0	MRK 195.0	MRK 230.0
For more details see	page 286	page 288	page 288	page 292	page 294	page 296
Capacity	3.0 / 5.0 to x 3.4 m	4.9 to x 2.1 m	6.0 to x 2.6 m	3.8 to x 2.7 m	6.0 to / 7.5 to x 3.0 m	10.0 to x 3.0 m
Max. Hook Height	15.8 m	16.4 m	16.7 m	16.8 m (+ Searcher Hook)	19.5 m	22.9 m
Incl. tip S1	19.0 m with 2.1 m Tip	20.0 m with 2.1 m Tip	20.4 m with 2.1 m Tip	18.5 m, 850 kg)	22.7 m with 3.1 m Tip	24.3 m with 4.9 m Tip
Incl. tip S2	21.0 m with 4.1 m Tip	22.0 m with 4.1 m Tip	22.4 m with 4.1 m Tip	20.7 m with 4.5 m Tip	20.7 m with 4.5 m Tip	30.4 m with 7.5 m Tip
Max. Working Radius	15.50 m	14.52 m	16.10 m	16.00 m	18.60 m	30.70 m
Cable	IWCR 8 mm x 86 m	IWRC 10 mm x 115 m	IWRC 10 mm x 160 m	IWRC 8 mm x 95 m	IWRC 10 mm x 101 m	IWRC 10 mm x 128 m
Telescopic System:						
Boom Length	3.93 - 15.71 m	4.60 - 15.63 m	4.75 m - 16.27 m	4.74 - 16.48 m	4.80 - 19.20 m	5.75 - 23.10 m
Telescoping Speed	11.78 m / 35 sec	11 m / 25 sec	11.52 m / 25 sec	11.7 m / 54 sec	14.4 m / 52 sec	17.35 m / 88 sec
Boom Type	5-stage, hydraulic telescopic boom	5-stage, hydraulic telescopic boom	5-stage, hydraulic telescopic boom	4-stage, hydraulic telescopic boom	5-stage, hydraulic telescopic boom	6-stage, hydraulic telescopic boom
Boom Angle	0 - 80° (18 sec)	-2° - 80°	-4° - 80° (19 sec)	0 - 80° (1.7 sec)	0 - 80° (16 sec)	0 - 80° (16 sec)
Turning Angle	360° continuous	360° continuous	360° continuous	360° continuous	360° continuous	360° continuous
Turning Speed	2.5 RPM	2.4 RPM	3.4 RPM	2.5 RPM	2.5 RPM	1.3 RPM
Cable Speed	17 m/min (4-fall)	27 m/min (4-fall)	28 m/min (4-fall)	10 m/min (4-fall)	11 m/min (4-fall)	10 m/min, (4-fall)
Supporting Feet	Fully hydraulic	- none -	- none -	Fully hydraulic	Fully hydraulic	Fully hydraulic
Running Gear System						
Drive						
Speed	0 - 3 km/h	0 - 3 km/h	0 - 5 km/h	0 - 3 km/h	0 - 3 km/h	0 - 3 km/h
Gradability	23°	23°	34°	20°	23°	23°
Running Gear Length	1,750 mm	1,750 mm	2,880 mm	2,100 mm	2,240 mm	2,515 mm
Ground Pressure	0.44 kg/cm²	0.44 kg/cm²	0.55 kg/cm²	0.50 kg/cm²	0.89 kg/cm²	0.70 kg/cm²
Chain Width	300 mm	450 mm	500 mm	320 mm	400 mm	400 mm
Motor Type	Mitsubishi Diesel	Komatsu 4 cylinder, water-cooled, direct injection	Komatsu 4 cylinder, water-cooled, direct injection	Yanmar 3 cylinder, water-cooled, direct injection 29.1 PS	Mitsubishi 32 PS	Yanmar 40.5 PS
Performance	18.0 KW / 2,100 RPM	40.5 KW / 1,850 RPM	68.4 KW / 2,200 RPM	21.8 KW / 2,400 RPM	23.5 KW / 2,500 RPM	29.8 KW / 2,500 RPM
Fuel Tank Capacity	Diesel or electric 380 V 40 l	Diesel 141 l	Diesel 195 l	Diesel and electric 380 V 60 l	Diesel or electric 380 V 74 l	Diesel and electric 380 V 83 l
L x W x H	4,800 mm x 1,400 mm x 2,050 mm	5,005 mm x 1,350 mm x 2,685 mm	6,545 mm x 2,490 mm x 2,965 mm	4,980 mm x 1,380 mm x 1,980 mm	5,610 mm x 1,670 mm x 2,185 mm	6,060 mm x 2,000 mm x 2,460 mm
Net Weight	4,835 kg	9,700 kg	15,640 kg	5,750 kg	8,070 kg	14,000 kg
Safety Systems	Load torque limiter, boom angle and load gauge, hydraulic pressure safety valve, hook securer, self locking brake for the motor, winch cut out by over-revving, levelness gauge					
Options	Non-marking rubber tracks, 1-fall/2-fall/4-fall hook block, hydraulic pressure safety valve, hook securer, self locking brake for the motor, winch cut out by over-revving, levelness gauge heavy load tip, heavy load underlay plates					

Model	MLK 20	MLK 45	MLK 85	MLK 110	MLK 160	MLK 300	MLK 600
Capacity	page 302 2,000 kg	page 304 4,800 kg	page 306 9,070 kg	page 308 13,450 kg	page 310 18,000 kg	page 312 27,150 kg	page 314 39,000 kg
Net Weight	2,000 kg	4,800 kg	9,070 kg	13,450 kg	18,000 kg	27,150 kg	39,000 kg
Dimensions: L x W x H in mm incl. crane boom	2,680 x 940 x 1,560	2,785 x 1,550 x 1,860	3,655 x 1,700 x 1,900 4,155 x 1,700 x 1,900	4,020 x 1,950 x 2,000 5,020 x 1,950 x 2,000	4,395 x 2,070 x 2,000 5,395 x 2,070 x 2,000	5,170 x 2,250 x 2,300 6,300 x 2,250 x 2,300	5,480 x 2,400 x 2,495 6,480 x 2,400 x 2,495
Turning Radius	1,870 mm	2,500 mm	3,200 mm	3,610 mm	3,930 mm	4,710 mm	5,100 mm
Boom Angle	-15° - 60°			-10° - 60°	-8° - 60°	-7° - 60°	
Frame	Torsion-stiff housing made of high-strength steel						
Power Type	box type, torsion resistant design made with high-strength structural steel.						
Transmission	Electric battery						
Boom	Rear-wheel drive	Front axle drive with counter shaft				Rear axle drive with planetary gear	
	Hydraulic base and telescopic mast element and two manual extensions	Hydraulic base and telescopic mast element	Hydraulic base and three telescopic proportionally extending mast elements				Hydraulic base and three telescopic proportionally extending mast elements
Traction Motor	Electric motor 2.6 kW – 24 V AC. Insulation class H	Electric motor 5 kW 48 V AC. Insulation class H	Electric motor 2 x 7.5 kW 72 V AC. Insulation class H	2 Electric motors 2 x 7.5 kW 80 V. Insulation class H	Electric motor 2 x 10 kW 96 V. Insulation class H	Electric motor 2 x 12 kW 96 V. Insulation class K1H	Electric motor 2 x 24 kW 96 V. Insulation class H
	24 V – 420 Ah with charging indicator	48 V – 560 Ah	72 V – 620 Ah	80 V – 840 Ah	96 V – 1,035 Ah	96 V – 1,395 Ah	96 V – 1,395 Ah
Braking	Automatic on rear wheels	Automatic on all wheels (front and rear)	Operating brake: operated by hydraulic pedal Parking and emergency brake: hydraulic with automatic control				
Steering	over the rear axle with max. steering angle of ± 90°.	over the rear wheel with engine powered by crane hydraulics with power steering and load sensor					
Hydraulic System	-	Crane hydraulics: 2.5 kW 24 V DC-Motor	Hydraulic operation via electro-proportional distributor activated by a joystick-filter and safety valves - Maximum operating pressure 220 bar				
Safety Devices		k, A,	Electronic load limiting				k, A,
Standard Equipment	Working light. Warning light. Fire extinguishers. Safety switch. Declaration of Conformity / CE mark. Operator's manual. Maintenance plan. Spare parts list Standard charger (external)		Operator's cab Working light. Warning light. Fire extinguishers. Safety switch. Declaration of Conformity / CE mark. Operator's manual. Maintenance plan. Spare parts list. Standard charger (external)				
Options	Heavy load tip Assembly tip Cable bottle 4-cases Remote control radio For further options, see the corresponding page						

Polish out scratches an alternative to replacing panes

Damage to a glass surface doesn't have to mean expensive pane replacement. Heavydrive has an **economical alternative**.

Our skilled specialists analyse the glass damage and – depending on the condition of the pane – can remove scratches by means of a special polishing process.

The pane must first be carefully assessed to decide whether repair is possible. Scratches have a tiny ridge, which is removed in the first stage of the assessment. The Heavydrive expert can then decide whether it is possible to polish out the scratch completely.

Heavydrive uses its specially developed polish to clean glass surfaces with precision. To prevent stress cracks, the temperature of the pane is controlled with a laser.

It is also important to choose the right polishing wheel and pastes and use suitable rinsing liquid, as the slightest mistake can have severe consequences.



This is why only specially trained staff carry out this kind of glass repair.

If it is possible to repair the pane, the customer saves a lot of time and money.

It saves them the cost of a new glass element, as well as renting assembly devices, personnel expenses and other costs like ceiling suspension.



Product Symbols

Depending on the equipment features, you will find one or more of the following icons on the product pages. A detailed explanation of the individual symbols can be found here:



Single-fall bottom hook block for increased rope length and faster telescoping



Four-fall bottom hook block for maximum loading capacity and safety



Overhead systems with a patented quick-change system developed by Heavydrive®



Crane boom tips with a patented quick-change system developed by Heavydrive®



Special shallow vacuum suction systems



Emission free - Suitable for indoor use



Battery powered



Non-marking tracks



Special cups for coated panes



Special cups for porous surfaces such as stone



Special cups for sub-zero temperatures



Suction cups can be individually deactivated, e.g. for replacing glazing on ruptured panes



Remote control



Delivery in a specially-made aluminium transportation box



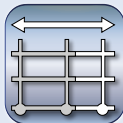
Vacuum suction system rotating



Vacuum suction system rotating



Vacuum suction system swivelling



Adaptable to the size of the pane

Extreme, large scale glass assembly projects worldwide

extra-large glass panes up to 24 m long



RENTAL & SALES WORLDWIDE:

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devices to complete solutions
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