

AERO-LIFT SHEET METAL HANDLING

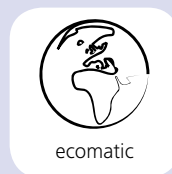
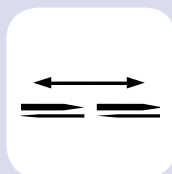
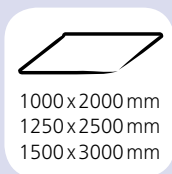


Vacuum lifts
for metal processing



Sheet metal handling is our specialty:

AERO-LIFT Standard Vacuum Lifts



Moving sheet metal is a completely normal but at the same time frequently complicated process in the metal processing industry.

For instance, several workers are needed to quickly and precisely move metal sheets to the point of processing in order to feed a cutting or punching system. Large and very thin sheets in particular pose an additional difficulty due to their own low inherent stability. In this context, metal sheets are well suited with their uniform dimensions and smooth, non-slip surfaces for the use of vacuum lift technology.

Even very large metal sheets can be easily transported over long distances, for instance, from a moving floor shelf to a laser cutting system.

By using a vacuum lifter, metal sheets can be removed quickly and precisely by only one person and then supplied to downstream processing machinery. This approach speeds up the transport process considerably and renders the entire workflow more efficient. The fact that the vacuum lifter is easy to operate and has an adjustable grip when needed, makes your work significantly easier.

By arranging the suction plates to match the dimensions, it is possible to prevent a sagging or buckling of the product to be transported.

The hot dip galvanized traverse construction ensures long-term corrosion protection and the high-quality individual components guarantee maximum stability. A large vacuum accumulator with check valve and an intelligent electronic warning device offer optimum safety in accordance with *EN 13155*. All devices comply with the current safety regulations of *BGR 500*.



Good ergonomics due to adjustable grip design (grip down)



Handling of sheet metal cabinet with battery-powered unit



Adjustable grip design (grip up)



Vacuum lifter for handling of sheet metal



AERO 900/6R vacuum lifter for charging laser cutting systems



Handling of thin, special-format metal sheets

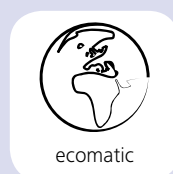
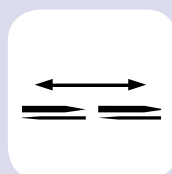
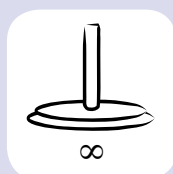
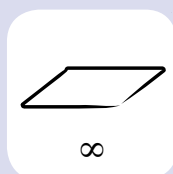
Description	Carrying capacity	Main traverse	Cross member	Suction plate quantity/ Ø
AERO 150/6R	150 kg	2200 mm	1000 mm	6 / 110 mm
AERO 250/4R	250 kg	2200 mm	1000 mm	4 / 170 mm
AERO 250/8R	250 kg	2200 mm	1000 mm	8 / 120 mm
AERO 350/6R	350 kg	2200 mm	1000 mm	6 / 160 mm
AERO 400/6R	400 kg	2200 mm	1000 mm	6 / 170 mm
AERO 400/8R	400 kg	2200 mm	1000 mm	8 / 160 mm
AERO 600/4R	600 kg	2200 mm	1000 mm	4 / 250 mm
AERO 600/6R	600 kg	2200 mm	1000 mm	6 / 210 mm
AERO 800/8R	800 kg	2200 mm	1000 mm	8 / 210 mm
AERO 900/6R	900 kg	2200 mm	1000 mm	6 / 250 mm
AERO 1000/6R	1000 kg	2200 mm	1000 mm	6 / 270 mm
AERO 1000/8R	1000 kg	2200 mm	1000 mm	8 / 250 mm
AERO 1200/8R	1200 kg	3000 mm	1000 mm	8 / 270 mm
AERO 1500/6R	1500 kg	3000 mm	1000 mm	6 / 350 mm
AERO 1500/10R	1500 kg	3000 mm	1000 mm	10 / 270 mm
AERO 2000/8R	2000 kg	3000 mm	1000 mm	8 / 350 mm

The advantages:

- ✓ gently handling of the material
- ✓ universally effective, even for non-magnetizable materials
- ✓ robust, long-term solution, low maintenance and process capable
- ✓ low follow-up costs, energysaving and long-lasting
- ✓ messages recallable on the touch panel
- ✓ fault indications can be transferred to a smartphone to manage them mobile

Real work horses:

AERO-LIFT Heavy Duty Vacuum Lifts



Metal plates of enormous dimensions and great weights are used in the construction of container ships and luxury cruise ships, pipelines or wind mill towers.

To handle such tremendous weights, it is not only necessary to have many workers on hand but to also rely on unwieldy and strenuous methods.

AERO-LIFT has specialized in handling these heavy weights and has proven that even weights exceeding 50 m. tons do not pose an problem to using vacuum lifting technology.

One employee is usually enough for transporting metal plates with an area of more than 70m² accurately and quickly in order to supply a downstream machine tool.

Moving products by means of suction is a completely material friendly process that does not scratch surfaces either. In addition to that, belts or clamps are also no longer necessary.

Especially when it comes to handling heavy loads, safety is a top priority. The proven traverse system, the intelligent arrangement of suction plates and the high-quality individual components ensure maximum stability and thus prevent the product to be transported from being deformed.

Optical and audible warning devices notify the operator about any possible problems. A vacuum accumulator built in the hot-dipped galvanized main traverse reliably maintains, e.g. in case of a power outage, the vacuum

over an extended period and thus guarantees that the transported loaded can be safely lower in case of an emergency.

Handling processes, particularly in the heavy load segment can benefit tremendously from vacuum lifting technology: The employees and material are spared, while processes are streamlined and consequently material flow is much more efficient. Thanks to low-maintenance pumps, an economical wear part system and efficient possible uses, AERO-LIFT devices are especially suited for the economic and ecological production of plants designed to harness renewable energies.



Heavy duty unit with carrying capacity of 50,000 kg



Heavy duty lifter for the wind energy sector



Vacuum lifter with carrying capacity of 14,000 kg



Heavy duty unit with carrying capacity of 32,000 kg

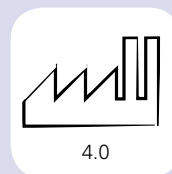
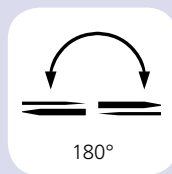
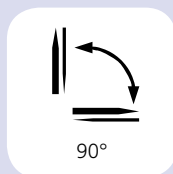
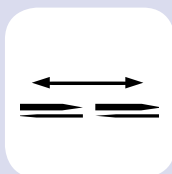


Transport of large-scale products

The advantages:

- ✓ Large metal sheets weighing over 50,000 kg, galvanized, scaled, painted or structured, can be transported easily and in a material-friendly manner
- ✓ Lifting units for feeding laser cutting and water jet cutting systems, bending machines or presses
- ✓ Wide variety of uses such as in sheet metal production and processing, in ship-yards, during construction and transport of pipeline components or tower elements for wind power plants or for the fabrication of enormous storage tanks and piping
- ✓ Integration of crane control in the operator's console of the vacuum lifter or via remote control, extensive service network, annual accident prevention inspection, machine construction made in Germany

Swivelling up to 90°, turning up to 180°: **Swivelling and turnable lifters**



When handling sheet metal, it is not always possible to transport the sheets horizontally. For instance, to feed a vertical saw or remove upright panels standing in a warehouse, it is necessary to have a swivelling range of 90°.

With vacuum lifters from AERO-LIFT swivelling is an easy and comfortable task even for a single worker when it comes to large and/or heavy loads.

Our 180° turnable vacuum lifters are ideal, for instance, for being able to paint both sides of metal panels. The load can be variably swivelled manually or using an electric motor and comfortably transported in one step to be processed on the front and back.



Turning lifter for heavy loads (over 1,000 kg)



Slewing unit with rigid load control



Turning table



90° swivelling

Standard swivelling units 90°

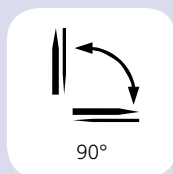
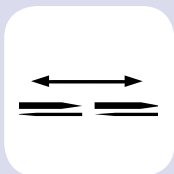
Description	Carrying capacity	Main traverse L	Cross traverse B	Suction plate quantity / Ø
125/4R-90°	125 kg	1800 mm	1000 mm	4 / 170 mm
125/4R-90°	125 kg	2200 mm	1000 mm	4 / 170 mm
125/4R-90°	125 kg	3000 mm	1000 mm	4 / 170 mm
125/8R-90°	125 kg	1800 mm	1000 mm	8 / 120 mm
125/8R-90°	125 kg	2200 mm	1000 mm	8 / 120 mm
125/8R-90°	125 kg	3000 mm	1000 mm	8 / 10 mm
125/12R-90°	125 kg	3000 mm	1000 mm	12 / 110 mm
250/4R-90°	250 kg	1800 mm	1000 mm	4 / 250 mm
250/4R-90°	250 kg	2200 mm	1000 mm	4 / 250 mm
250/4R-90°	250 kg	3000 mm	1000 mm	4 / 250 mm
250/8R-90°	250 kg	1800 mm	1000 mm	8 / 170 mm
250/8R-90°	250 kg	2200 mm	1000 mm	8 / 170 mm
250/8R-90°	250 kg	3000 mm	1000 mm	8 / 170 mm
250/12R-90°	250 kg	3000 mm	1000 mm	12 / 160 mm
500/4R-90°	500 kg	1800 mm	1000 mm	4 / 350 mm
500/4R-90°	500 kg	2200 mm	1000 mm	4 / 350 mm
500/4R-90°	500 kg	3000 mm	1000 mm	4 / 350 mm
500/8R-90°	500 kg	1800 mm	1000 mm	8 / 250 mm
500/8R-90°	500 kg	2200 mm	1000 mm	8 / 250 mm
500/8R-90°	500 kg	3000 mm	1000 mm	8 / 250 mm
1000/8R-90°	1000 kg	1800 mm	1000 mm	8 / 350 mm
1000/8R-90°	1000 kg	2200 mm	1000 mm	8 / 350 mm
1000/8R-90°	1000 kg	3000 mm	1000 mm	8 / 350 mm
1000/12R-90°	1000 kg	3000 mm	1000 mm	12 / 270 mm

Standard turning units 180°

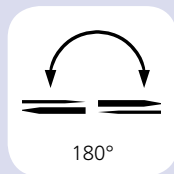
Description	Carrying capacity	Main traverse L	Cross traverse B	Suction plate quantity / Ø
AERO 125/4R-180°	125 kg	1800 mm		4 / 210 mm
AERO 125/4R-180°	125 kg	2200 mm		4 / 210 mm
AERO 125/4R-180°	125 kg	3000 mm		4 / 210 mm
AERO 125/4R-180°	125 kg	2200 mm		4 / 250 mm
AERO 125/12R-180°	125 kg	2200 mm		12 / 110 mm
AERO 125/8R-180°	125 kg	1800 mm		8 / 160 mm
AERO 125/8R-180°	125 kg	2200 mm		8 / 160 mm
AERO 125/8R-180°	125 kg	3000 mm		8 / 160 mm
AERO 125/12R-180°	125 kg	3000 mm		12 / 110 mm
AERO 125/12R-180°	125 kg	3000 mm		12 / 120mm
AERO 250/4R-180°	250 kg	1800 mm		4 / 270mm
AERO 250/4R-180°	250 kg	2200 mm		4 / 270 mm
AERO 250/4R-180°	250 kg	3000 mm		4 / 270 mm
AERO 250/4R-180°	250 kg	2200 mm		4 / 250 mm
AERO 250/8R-180°	250 kg	1800 mm		8 / 210 mm
AERO 250/8R-180°	250 kg	2200 mm		8 / 210 mm
AERO 250/8R-180°	250 kg	3000 mm		8 / 210 mm
AERO 250/8R-180°	250 kg	2200 mm		8 / 160 mm
AERO 250/12R-180°	250 kg	2200 mm		12 / 160 mm

Your problems are our strengths:

Individual industry solutions



90°



180°



ecomatic



4.0

Vacuum technology is the ultimate universal solution, when it comes to handling problems involving metal sheets and many other materials.

Almost all goods that have to be transported can be handled by only one person in most cases quickly, precisely and safely using the suction/lift/lower/release approach regardless of dimensions and weight.

Besides the many AERO-LIFT standard devices, which are mainly geared for smooth, uniform steel sheets, the modular design principle implemented by AERO-LIFT also offers a wide variety of custom-made products that are especially adapted to the respective

task and can thus be optimally integrated in your workflow. This approach ensures that the vacuum lifts can actively support your processes and make them more efficient.

While selecting the right suction cups or their arrangement is frequently essential for obtaining the desired success, in other cases, it is the high-caliber efforts and designs of AERO-LIFT engineers that deliver the corresponding results: be it the extremely heavy duty traverse systems or very flexible tube lifters, e.g. for transporting barrels, drums or coils.

Experience shows that the individual solutions developed by AERO-LIFT pay for them-

selves in no time at all, since they expedite processes, humanize the workplace and allow for a better utilization of capacities so that they can be put to good use elsewhere.

Regardless of the industry, AERO-LIFT offers a fitting solution for a purposeful handling of sheet metal at the highest level.



Multifunctional system for the aerospace industry



Swivelling vacuum lifter for sheet metal pipes



Stack-adaptable heavy duty device (hydraulically extendable)



Box gripper 180°



Handling of inverters



Transport of engine hoods constructed of aluminum



Tube lifters for cash terminals

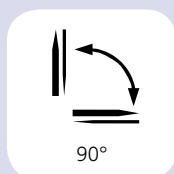
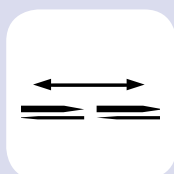


Low-profile vacuum lifters



Production of solar energy elements

Going up safely - without electrical connection: Mains-free units



Vacuum technology can be optimally used not only in the industry but also by trades. The rugged, mains-free vacuum lifters of AERO-LIFT impress by showing off their strengths especially during mechanical processing and installation on site.

CLAD-BOY® is the ideal partner for all roofers and carpentry shops. This mains-free panel lifter is especially designed for installing wall and roof elements, for instance during renovation projects. The rugged quality suited for construction sites, the UV-resistant suction

plates with very high service life and capable energy unit ensure maximum safety.

Vacuum technology can be used for quickly precisely positioning of loads. That means: less effort and greater installation output.



BASIC-LIFT vacuum lifter (BL 100/1L)



BASIC-LIFT with carrying capacity of 600 kg (BL 600/6L)



CLAD-BOY® for the installation of wall panels



Mains-free lifter for enclosures (AERO 250/1R-24V)



Mains-free lifter for sheet metal weighing up to 1,000 kg (AERO 1000/8R-24V)



CLAD-LIFT for cable-free transport of sheet metal

AERO-LIFT Vakuumtechnik GmbH:

Tested quality made in Germany



Lifters & Components

For more than 25 years, AERO-LIFT Vakuumtechnik GmbH has been manufacturing lifting equipment designed to transport very large loads with the aid of a vacuum in a manner that is safe for materials and employees.

In this regard, we do not only rely on standard products but also offer variations and special solutions that are optimally suited to your task. From miniature electronic components to heavy-weight aircraft elements, from rock slabs to flour sacks – lifting equipment from AERO-LIFT can be used to lift, rotate and move almost all types of materials.

Our range of products also includes a large number of components such as suction cups, seals, ejectors and valves that can be used to optimally equip your machinery used, e.g., in factory automation. All materials can be delivered quickly from our warehouse and fulfill AERO-LIFT's high quality standards.

In addition to that, we offer suitable peripherals for any vacuum lifter, whether system components such as ceiling rail systems, pillar-mounted slewing cranes, electric chain hoists or the corresponding connecting elements.



Production & Service

AERO-LIFT Vakuumtechnik GmbH is a capable, medium-sized company. The people living in the Swabian Alb region, not far from the famous Hohenzollern Castle (photo), are known for their diligence, ingenuity and precision.

These virtues are an integral part of our company – and our aim is to live up to this reputation and improve ourselves on a daily basis.

That explains why the products of AERO-LIFT are of the highest standards, made in Germany, with a high level of vertical integration in the region. When selecting materials and suppliers, we attach great importance to optimum quality and a common goal - to impress our customers!

Contact our AERO-LIFT Service department, should you have any questions relating to our products and industry solutions.

More information, all product brochures and our component catalog can be found at www.aero-lift.de.





AERO-LIFT

we are here to assist you,
even locally!

AERO-LIFT international



To locate a representation or a contact person for your area - in Germany as well as in many countries around the globe, visit www.aero-lift.de

AERO-LIFT Vakuumtechnik GmbH
Binsdorf, Turmstraße 1
72351 Geislingen
Tel +49 (0) 7428-94 514 - 0
Fax +49 (0) 7428-94 514 - 38
info@aero-lift.de
www.aero-lift.de

