VACUUM- LIFTING TECHNOLOGY

- Vacuum lifting cross beams
- Vacuum slewing cross beams
- Vacuum turning cross beams
- Vacuum coil lifters
- Special designs

made in Germany
Timmer GmbH is your reliable partner in pneumatics, vacuum technology, pumps and dosing technology. Employing a staff of over 120, we develop, manufacture and sell in two plants an extensive product range – from customised solutions through to technical accessories.

In brief:
We offer everything you need on a day-to-day basis.
Our products are known all over the world under the brand names Timmer and TIVAtec.

ADMINISTRATION
Our modern administration building in Neuenkirchen is the hub and creative centre of our activities. This is where we design, plan and coordinate to ensure smooth processes in the interests of our customers.

ASSEMBLY
Creating a perfect product from a host of coherent details calls for complex procedures. We employ specialists whose every step is spot on and who keep an overall perspective. No machine can do that.

LOGISTICS CENTRE
An area of approx. 20,000 m² ensures swift availability of our broad product spectrum. Our fully-automated warehouse facility guarantees smooth shipping procedures all around the world.

SALES
We provide you with a skilled contact person at all times. Either by our sales engineers on your premises anywhere in Germany or by our engineers and technicians on the telephone. Our experts will be pleased to advise you and help you find the right solution. This means you benefit not only from our products, but also from our solid technical knowledge.

DEVELOPMENT & DESIGN
Our design engineers have at their disposal high-performance computers featuring the latest 3D CAD software – and they know exactly how to use them. The results are sophisticated, totally convincing product solutions.
<table>
<thead>
<tr>
<th>Vacuum lifting cross beams Standard</th>
<th>Series VHTS</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lifting until 2.000 kg</td>
<td>7</td>
<td></td>
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<table>
<thead>
<tr>
<th>Vacuum slewing cross beams Standard</th>
<th>Series VSTS</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lifting until 1.000 kg / Slew until 500 kg</td>
<td>11</td>
<td></td>
</tr>
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<table>
<thead>
<tr>
<th>Vacuum turning cross beams</th>
<th>Series VWT</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>individual</td>
<td>15</td>
<td></td>
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<table>
<thead>
<tr>
<th>Vacuum coil lifter</th>
<th>Series VSL</th>
<th>Page</th>
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<tr>
<td>individual</td>
<td>19</td>
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<table>
<thead>
<tr>
<th>Special designs</th>
<th>Series VHT</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>individual</td>
<td>23</td>
<td></td>
</tr>
</tbody>
</table>
What can we do for you?

Advantages of the vacuum lifting technology

Using vacuum lifting systems offers many advantages. We would like to highlight some of these.

- **Quick return on investment**: Through reduced manpower requirement for handling components and the resultant lower fixed costs, our systems are quickly paid off in a very short time.
- **Time saving through shorter clock cycles**: Furthermore you will notice the increasing time saving in material handling. Optimising operations using vacuum lifting systems reduces the cycle times.
- **Costumized**: Our systems can be adapted to your particular needs and requirements on request.
- **Reduced sickness absence rates**: Taking the strain off the operator reduces sickness absence rates. It also creates a pleasant working environment.
- **Low-maintenance / reliable**: The devices are extremely low-maintenance and designed to be robust and durable.
- **Safety**: All devices meet the requirements of DIN 13155 and are tested in accordance with the industrial safety regulations and bear the CE symbol.
- **Material-saving transportation**: Through the optimally designed vacuum grip the handling on the material is extremely gentle.

What we can offer you

- **Advisory service**: Our sales engineers will advise you on all aspects of vacuum lifting technology and crane systems, from the start to the end of your project.
- **Crane systems**: We can also offer you complete solutions including crane systems.
- **Maintenance**: After successful completion of a project, our services will be still available. We offer you maintenance agreements tailored to the specific device, which will be produced in our factory.
- **Safety inspections**: We are your partner when it comes to safety – we offer tests carried out in our factory by an expert in accordance with DGUV instruction 52 and 54 (former BGV D6, German accident prevention regulation).
- **Aftersales service**: Even our services after sale won’t stop, we offer:
  - Annual maintenance work in our factory
  - Safety inspections in our factory
  - Stockage of wear parts (saves warehouse storage)

Carefree Service Package

“We offer not only vacuum lifting technology ... “,

but also solution-oriented advice right from the beginning of the project through to successful completion and even beyond that. To complete our offer, you will receive the complete, tailor-made crane system including assembly and on-site service.

Excerpt from the available service options

- annual test carried out in our house by an expert member of staff
- test in accordance with DGUV instruction 52 and 54 (former BGV D6 (German accident prevention regulation)) carried out in our factory
- Maintenance, servicing and repair work in our factory
### Explanation

<table>
<thead>
<tr>
<th>TA</th>
<th>VSL</th>
<th>600</th>
<th>1600</th>
<th>400</th>
<th>P</th>
<th>P</th>
<th>R1200</th>
<th>SO</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Special</th>
</tr>
</thead>
<tbody>
<tr>
<td>R</td>
</tr>
<tr>
<td>SN</td>
</tr>
<tr>
<td>SB</td>
</tr>
<tr>
<td>SF</td>
</tr>
<tr>
<td>1200</td>
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<tr>
<td>X4</td>
</tr>
<tr>
<td>P</td>
</tr>
<tr>
<td>M</td>
</tr>
<tr>
<td>E</td>
</tr>
<tr>
<td>X</td>
</tr>
</tbody>
</table>

| 400 | = inner Ø of coil |

**Series**

- VSL = Vacuum slewing lifter / Coil lifter
- VHTS = Vacuum lifting cross beam - standard
- VSTS = Vacuum slewing cross beam - standard
- VWT = Vacuum turning cross beam
- EVE = External vacuum unit

600 = max. lifting capacity kg

1600 = max. outer Ø of coil

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Technical and optical modifications reserved. Errors and omissions excepted.
Crane systems

Slewing pillar crane

Slewing pillar cranes are for lifting and transporting workpieces. It contains lifting tools and load handling devices. The motions lifting, dropping, cross travelling and slewing are occurred manual or power-operated.

The classification is after DIN 15018. Slewing pillar cranes are only mounted with pillars. The subsoil has to be checked for the bottom attachment. We offer several mounting options.

<table>
<thead>
<tr>
<th>Working load kg</th>
<th>Outreach in m</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
</tr>
<tr>
<td>125</td>
<td>X</td>
</tr>
<tr>
<td>160</td>
<td>X</td>
</tr>
<tr>
<td>250</td>
<td>X</td>
</tr>
<tr>
<td>320</td>
<td>X</td>
</tr>
<tr>
<td>500</td>
<td>X</td>
</tr>
</tbody>
</table>

Slewing cranes for walls

Slewing cranes for walls are for lifting and transporting workpieces. It contains lifting tools and load handling devices. The motions lifting, dropping, cross travelling and slewing are occurred manual or power-operated.

The classification is after DIN 15018. They are only suited for being mounted on walls or pillars.

<table>
<thead>
<tr>
<th>Working load kg</th>
<th>Outreach in m</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
</tr>
<tr>
<td>125</td>
<td>X</td>
</tr>
<tr>
<td>160</td>
<td>X</td>
</tr>
<tr>
<td>250</td>
<td>X</td>
</tr>
<tr>
<td>320</td>
<td>X</td>
</tr>
<tr>
<td>500</td>
<td>X</td>
</tr>
</tbody>
</table>

Portal crane

Portal cranes can be used, if there are no possibilities for bridges or overhead cranes. Those cranes need only a less foundation, or can even work without.

Operational areas are for example handicraft business and garages. They are suitable for loads until 10,000 kg. We are pleased to offer also customised systems, which can lift a higher load.

These crane systems are designed individually.
### Characteristics

- Long service life through using high quality materials
- Optionally electric or pneumatic vacuumpump
- Quantity of suction cups depends on material thickness
- Acoustic warningsystem for safety incl. rechargeable battery
- Standard with ball valve for closing single suction cups

### Technical Details

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Technical details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lifting capacity</td>
<td>150 kg till 2.000 kg</td>
</tr>
<tr>
<td>Weight of device</td>
<td>75 kg till 375 kg</td>
</tr>
<tr>
<td>Quantity of suction cups</td>
<td>4 till 16 pieces</td>
</tr>
<tr>
<td>Ø of suction cups</td>
<td>150 mm till 285 mm</td>
</tr>
<tr>
<td>Vacuumpump</td>
<td>Optionally electrical or pneumatic</td>
</tr>
<tr>
<td>Operating pressure</td>
<td>Pneumatic vacuumpumps 5-6 bar</td>
</tr>
<tr>
<td>Electrical connection</td>
<td>Electrical vacuumpumps 400V 16A CEE coupling</td>
</tr>
<tr>
<td>Workpiece measures</td>
<td>minimum</td>
</tr>
<tr>
<td></td>
<td>maximum</td>
</tr>
<tr>
<td>Lenght</td>
<td>700 mm</td>
</tr>
<tr>
<td>Width</td>
<td>380 mm</td>
</tr>
<tr>
<td>Thickness</td>
<td>&gt; 1 mm</td>
</tr>
<tr>
<td>Lenght</td>
<td>6.000 mm</td>
</tr>
<tr>
<td>Width</td>
<td>2.000 mm</td>
</tr>
</tbody>
</table>

**Vacuum lifting cross beam Standard**
Modularly vacuum lifting cross beams Standard TA-VHTS
Lifting until 2.000 kg

Application
These cross beams built in modular structure offer unique flexibility according to the adjustable sliding system. Due to the adjustable cross bars and suction cups from the length and width of the beam, they optimally adapt to your handling tasks.

These devices are used for handling vacuum tight sheets made of wood, plastic, steel and aluminum with small, middle and large dimensions. They offer simple and economic handling concerning compact dimensions and a long-lasting construction.

Features
- Long service life through using high quality materials
- Optionally electric or pneumatic vacuumpump
- Acoustic warningsystem for safety (works also by power outage)
- Operation: Suction and release through hand slide valve with safety interlock
- Vacuum gauge, vacuum tank with check valve
- Standard with ball valve for closing single suction cups
- Cross clamp for various adjustments

Suction foot incl. spring plunger and clamp
Ball valve, each suction cup can be closed separately
Cross clamp for various adjustments
Basic module switchboard
Hand slide valve with safety interlock
Optionally electric or pneumatic vacuum generation
Modularly vacuum lifting cross beams Standard TA-VHTS
Lifting until 2.000 kg

Measures

<table>
<thead>
<tr>
<th>Order code</th>
<th>Type</th>
<th>Approx. weight of device</th>
<th>Quantity of suction cups</th>
<th>Ø of suction cups</th>
<th>Vacuum pump</th>
<th>Measures of device</th>
<th>Measures of workpiece</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>pneumatic</td>
<td>min L / b / t</td>
<td>max L / b / t</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>electric</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Lifting until 150 kg

- TA-VHTS2-150/2500x1250-P-X-SF150x4
- TA-VHTS2-150/2500x1250-E-X-SF150x4

Lifting until 300 kg

- TA-VHTS2-300/2500x1250-P-X-SF150x4
- TA-VHTS2-300/2500x1250-E-X-SF150x4

Lifting until 500 kg

- TA-VHTS2-500/3000x1500-P-X-SF150x8
- TA-VHTS2-500/3000x1500-E-X-SF150x8

Lifting until 750 kg

- TA-VHTS2-750/3000x1500-P-X-SF285x4
- TA-VHTS2-750/3000x1500-E-X-SF285x4

Lifting until 1000 kg

- TA-VHTS2-1000/4000x2000-P-X-SF240x8
- TA-VHTS2-1000/4000x2000-E-X-SF240x8

Lifting until 1500 kg

- TA-VHTS2-1500/6000x2000-P-X-SF240x12
- TA-VHTS2-1500/6000x2000-E-X-SF240x12

Lifting until 2000 kg

- TA-VHTS2-2000/6000x2000-P-X-SF240x16
- TA-VHTS2-2000/6000x2000-E-X-SF240x16

Higher lifting capacity upon request!

Please note that the allowed lifting capacity decreases by less suction cups.

The outer ball valves have to be closed at the minimum measures.
Modularly vacuum lifting cross beams Standard TA-VHTS

Examples

**TA-VHTS2-150/2500x1250-E-X-SF150x4**

for the transport of vacuum tight material with following datas:
- **Length**: until 2,500 mm
- **Lifting capacity**: 150 kg
- **Width**: until 1,250 mm
- **Material thickness**: > 3 mm

**TA-VHTS2-750/3000x1500-E-X-SF200x8**

for the transport of vacuum tight material with following datas:
- **Length**: until 3,000 mm
- **Lifting capacity**: 750 kg
- **Width**: until 1,500 mm
- **Material thickness**: > 1 mm

**TA-VHTS-1500/6000x2000-E-X-SF240x12**

for the transport of vacuum tight material with following datas:
- **Length**: until 6,000 mm
- **Lifting capacity**: 1,500 kg
- **Width**: until 2,000 mm
- **Material thickness**: > 1 mm
## Characteristics

- Long service life through using high quality materials
- Optionally electric or pneumatic vacuumpump
- Quantity of suction cups depends on material thickness
- Acoustic warningsystem for safety incl. rechargeable battery
- Standard with ball valve for closing single suction cups

## Technical details

| Lifting capacity | Lifting: until 1,000 kg  
Slewing: until 500 kg |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight of device</td>
<td>105 kg till 230 kg</td>
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<tr>
<td>Quantity of suction cups</td>
<td>4 till 8 pieces</td>
</tr>
<tr>
<td>Ø of suction cups</td>
<td>200 mm till 240 mm</td>
</tr>
<tr>
<td>Vacuumpump</td>
<td>Optionally electrical or pneumatical</td>
</tr>
<tr>
<td>Operating pressure</td>
<td>Pneumatic vacuumpumps 5-6 bar</td>
</tr>
<tr>
<td>Electrical connection</td>
<td>Electrical vacuumpumps 400V 16A CEE coupling</td>
</tr>
<tr>
<td>Workpiece measures</td>
<td></td>
</tr>
<tr>
<td>Lenght :</td>
<td>minimum : 1050 mm</td>
</tr>
<tr>
<td>Width :</td>
<td>500 mm</td>
</tr>
<tr>
<td>Thickness :</td>
<td>&gt; 1 mm</td>
</tr>
</tbody>
</table>
Modularly vacuum slewing cross beams Standard VSTS
Lifting until 1.000 kg | Slewing until 500 kg

Application
These cross beams built in modular structure offer unique flexibility according to the adjustable sliding system. Due to the adjustable cross bars and suction cups of the slewing cross beam, they optimally adapt to your handling tasks.

These devices are used for handling vacuum tight sheets made of wood, plastic, steel and aluminum with small, middle and large dimensions. The slewing motion can be occurred optionally electric or pneumatic. The slewing cross beam offers simple and economic handling concerning the light weight and a long lasting construction.

Features
- Long service life through using high quality materials
- Optionally electric or pneumatic vacuum pump
- Acoustic warning system for safety (works also by power outage)
- Operation: Slewing motion with push button, suction and release through hand slide valve with safety interlock, two buttons for slewing forwards and backwards
- Vacuum gauge, vacuum tank with check valve
- Standard with ball valve for closing single suction cups
- Cross clamp for various adjustments

Technical and optical modifications reserved. Errors and omissions excepted.
Modularly vacuum slewing cross beams Standard VSTS
Lifting until 1.000 kg | Slewing until 500 kg

Measures

<table>
<thead>
<tr>
<th>Order code</th>
<th>Type</th>
<th>Approx. weight of device</th>
<th>Quantity of suction cups</th>
<th>Ø of suction cups</th>
<th>Vacuum-pump</th>
<th>Measures of device min</th>
<th>Measures of workpiece max</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>L / b / t</td>
<td>l / b</td>
</tr>
<tr>
<td>61101024</td>
<td>TA-VSTS-250/125-2500x1250-P-P-SF200x4</td>
<td>105</td>
<td>4</td>
<td>200</td>
<td>pneum.</td>
<td>1910</td>
<td>800</td>
</tr>
<tr>
<td>61101030</td>
<td>TA-VSTS-250/125-2500x1250-E-E-SF200x4</td>
<td>120</td>
<td>4</td>
<td>200</td>
<td>electr.</td>
<td>1910</td>
<td>800</td>
</tr>
<tr>
<td>61101025</td>
<td>TA-VSTS-250/125-2500x1250-P-P-SF200x8</td>
<td>125</td>
<td>8</td>
<td>200</td>
<td>pneum.</td>
<td>1910</td>
<td>800</td>
</tr>
<tr>
<td>61101031</td>
<td>TA-VSTS-250/125-2500x1250-E-E-SF200x8</td>
<td>135</td>
<td>8</td>
<td>200</td>
<td>electr.</td>
<td>1910</td>
<td>800</td>
</tr>
</tbody>
</table>

Lifting until 500 kg / Slewing until 250 kg

<table>
<thead>
<tr>
<th>Order code</th>
<th>Type</th>
<th>Approx. weight of device</th>
<th>Quantity of suction cups</th>
<th>Ø of suction cups</th>
<th>Vacuum-pump</th>
<th>Measures of device min</th>
<th>Measures of workpiece max</th>
</tr>
</thead>
<tbody>
<tr>
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<td></td>
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<td></td>
<td></td>
<td></td>
<td>L / b / t</td>
<td>l / b</td>
</tr>
<tr>
<td>61101026</td>
<td>TA-VSTS-500/250-3000x1500-P-P-SF240x4</td>
<td>115</td>
<td>4</td>
<td>240</td>
<td>pneum.</td>
<td>2410</td>
<td>800</td>
</tr>
<tr>
<td>61101032</td>
<td>TA-VSTS-500/250-3000x1500-E-E-SF240x4</td>
<td>125</td>
<td>4</td>
<td>240</td>
<td>electr.</td>
<td>2410</td>
<td>800</td>
</tr>
<tr>
<td>61101027</td>
<td>TA-VSTS-500/250-3000x1500-P-P-SF200x8</td>
<td>135</td>
<td>8</td>
<td>200</td>
<td>pneum.</td>
<td>2410</td>
<td>800</td>
</tr>
<tr>
<td>61101033</td>
<td>TA-VSTS-500/250-3000x1500-E-E-SF200x8</td>
<td>145</td>
<td>8</td>
<td>200</td>
<td>electr.</td>
<td>2410</td>
<td>800</td>
</tr>
</tbody>
</table>

Lifting until 1000 kg / Slewing until 500 kg

<table>
<thead>
<tr>
<th>Order code</th>
<th>Type</th>
<th>Approx. weight of device</th>
<th>Quantity of suction cups</th>
<th>Ø of suction cups</th>
<th>Vacuum-pump</th>
<th>Measures of device min</th>
<th>Measures of workpiece max</th>
</tr>
</thead>
<tbody>
<tr>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>L / b / t</td>
<td>l / b</td>
</tr>
<tr>
<td>61101029</td>
<td>TA-VSTS-1000/500-4000x2000-P-P-SF240x8</td>
<td>220</td>
<td>8</td>
<td>240</td>
<td>pneum.</td>
<td>3410</td>
<td>1300</td>
</tr>
<tr>
<td>61101035</td>
<td>TA-VSTS-1000/500-4000x2000-E-E-SF240x8</td>
<td>230</td>
<td>8</td>
<td>240</td>
<td>electr.</td>
<td>3410</td>
<td>1300</td>
</tr>
</tbody>
</table>

Higher lifting capacity upon request!

Please note that the allowable lifting capacity decreases by less suction cups.
The outer ball valves have to be closed at the minimum measures.
Modularly vacuum slewing cross beams Standard VSTS

Examples

**TA-VSTS-500/250-3000x1500-E-E-SF240x4**

for the transport and slewing of steel sheets with following datas:

- Length: until 3.000 mm
- Lifting capacity: vertical 250 / horizontal 500 kg
- Width: until 1.500 mm
- Material thickness: > 3 mm

**TA-VSTS-1000/500-4000x2000-E-E-SF240x8**

for the transport and slewing of steel sheets with following datas:

- Length: until 4.000 mm
- Lifting capacity: vertical 500 / horizontal 1000 kg
- Width: until 2.000 mm
- Material thickness: > 1 mm
## Series VWT

### Vacuum turning cross beam

*Each solution can be adapted individually to your requirements!*

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Technical details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Long service life through using high quality materials</td>
<td>Lifting capacity</td>
</tr>
<tr>
<td>Optionally electric or pneumatic vacuumpump</td>
<td>configurable</td>
</tr>
<tr>
<td>Quantity of suction cups depends on material thickness</td>
<td>Quantity of suction cups</td>
</tr>
<tr>
<td>Acoustic warningsystem for safety incl. rechargeable battery</td>
<td>Ø of suction cups</td>
</tr>
<tr>
<td>Standard with ball valve for closing single suction cups</td>
<td>Vacuum pump</td>
</tr>
<tr>
<td></td>
<td>configurable</td>
</tr>
<tr>
<td></td>
<td>electric</td>
</tr>
<tr>
<td></td>
<td>Electric vacuumpump 400V 16A CEE coupling</td>
</tr>
<tr>
<td></td>
<td>Workpiece measures</td>
</tr>
<tr>
<td></td>
<td>configurable</td>
</tr>
</tbody>
</table>
Modularly vacuum turning cross beam VWT
Design configurable

Features

- Long service life through using high quality materials
- Optionally electric or pneumatic vacuum pump
- Quantity of suction cups configurable
- Wide range of suction cups (material and profile) for lifting different materials (metal, plastic, glass, etc.)
- Acoustic warning system for safety (works also by power outage)
- Turning motion will be occurred electrically
- Operation through push button, one button for vacuum generation, turning forwards and backwards, two buttons (have to be pushed at the same time) for release
- Vacuum gauge, pressure tank with check valve

Application

These cross beams built in modular structure offer unique flexibility according to the adjustable sliding system. Due to the adjustable cross bars and suction cups of the Timmer turning cross beam, they optimally adapt to your handling tasks. Using high powered gear motors the load can be turned continuously in every position. The recognition of the end position occurs through the end switch.

Technical details

These special designs will be adapted individually on your requirements. The production of the device occurs after exact given specifications.
Modularly vacuum turning cross beam VWT
Examples

**TA-VWT-700**

for the transport and turning of vacuum tight materials with following datas:

- Length: until 5.000 mm
- Width: until 1.800 mm
- Lifting capacity: until 700 kg

**TA-VWT-1000**

for the transport and turning of vacuum tight materials with following datas:

- Length: until 13.400 mm
- Width: until 2.400 mm
- Lifting capacity: until 1.000 kg
- Material thickness: > 4 mm

Each solution can be adapted individually to your requirements!
Modularly vacuum turning cross beam VWT
Examples

**TA-VWT-250**

for the transport and turning of vacuum tight materials with following datas:

- Length: until 6.000 mm
- Width: until 1.000 mm
- Material thickness: > 4 mm
- Lifting capacity: until 250 kg


**TA-VWT-500**

for the transport and turning of vacuum tight materials with following datas:

- Length: until 6.000 mm
- Width: until 2.400 mm
- Lifting capacity: 500 kg

Each solution can be adapted individually to your requirements!
## Series VSL

### Vacuum coil lifter

*Each solution can be adapted individually to your requirements!

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Technical details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Long service life through using high quality materials</td>
<td>Lifting capacity: configurable</td>
</tr>
<tr>
<td>Optionally electric or pneumatic vacuumpump</td>
<td>suction plate: configurable</td>
</tr>
<tr>
<td>Acoustic warningsystem for safety incl. rechargeable battery</td>
<td>Vacuumpump: optionally electric or pneumatic</td>
</tr>
<tr>
<td>Individually designed suction plate</td>
<td>Operating pressure: Pneumatic Vacuumpump 5-6 bar</td>
</tr>
<tr>
<td></td>
<td>Electrical connection: Electric Vacuumpump 400V 16A CEE coupling</td>
</tr>
<tr>
<td></td>
<td>Coil measures: configurable</td>
</tr>
</tbody>
</table>
Vacuum coil lifter
Design configurable

Each solution can be adapted individually to your requirements!

Stable welded frame construction
Pneumatic or electric vacuum generation with high efficiency
Individually designed suction plate
Slewing motion 90° through two high quality pneumatic cylinders
Acoustic warning system for safety
Operation through push button, one button for vacuum generation, turning forwards and backwards, two buttons (have to be pushed at the same time) for release
Vacuum gauge, pressure tank with check valve
Optional with integrated compressor

Application
Timmer vacuum slewing lifters / coil lifters are designed for both gentle and convenient transportation, as well as for slewing split strips. Our systems offer simple and economic handling. Only one operator is required. The vacuum generation occurs by a pneumatic (or optional electric) multi-phase TIVAtec vacuum pump. On this model, the slewing function is realized by two pneumatic cylinders. There are four individually designed vacuum circuits, which can be regulated separately through a ball valve. The integrated compressed air reservoir together with the warning signal offers an optimum on safety. The current vacuum level can be controlled directly at any time through the vacuum meter. A warning signal will sound in the case of a leak. Excellent vacuum tightness can be achieved by using a special seal.

Technical details
These special designs will be adapted individually on your requirements. The production of the device occurs after exact given specifications.

Features
- Stable welded frame construction
- Pneumatic or electric vacuum generation with high efficiency
- Individually designed suction plate
- Slewing motion 90° through two high quality pneumatic cylinders
- Acoustic warning system for safety
- Operation through push button, one button for vacuum generation, turning forwards and backwards, two buttons (have to be pushed at the same time) for release
- Vacuum gauge, pressure tank with check valve
- Optional with integrated compressor
Vacuum coil lifter

Examples

Each solution can be adapted individually to your requirements!

**TA-VSL-500**

for slewing of vacuum tight slit strips with following datas:

- Ø inside: 300 mm
- Ø outside: 1,200 mm
- Lifting capacity: 500 kg

**TA-VSL-220**

for slewing of vacuum tight slit strips with following datas:

- Minimum support width: 200 mm
- Ø inside: 520 mm
- Ø outside: 1,230 mm
- Lifting capacity: 220 kg
Vacuum coil lifter

Examples

**TA-VHL-500**

for the transport of vacuum tight aluminum slit strips:
- Lifting capacity: 500 kg

**TA-VHL-5000**

for the transport of vacuum tight aluminum slit strips:
- Lifting capacity: 5000 kg

Each solution can be adapted individually to your requirements!
**Series TA**

**Special designs**

*Each solution can be adapted individually to your requirements!*

<table>
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<td>- Long service life through using high quality materials</td>
<td>Lifting capacity configurable</td>
</tr>
<tr>
<td>- Optionally electric or pneumatic vacuumpump</td>
<td>Quantity of suction cups configurable</td>
</tr>
<tr>
<td>- Quantity of suction cups depends on material thickness</td>
<td>Ø of suction cups configurable</td>
</tr>
<tr>
<td>- Acoustic warning system for safety incl. rechargeable battery</td>
<td>Vacuum pump optionally electric or pneumatic</td>
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<td></td>
<td>Electrical connection Electric vacuumpumpn 400V 16A CEE coupling</td>
</tr>
<tr>
<td></td>
<td>Workpiece measures configurable</td>
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</tbody>
</table>

*Each solution can be adapted individually to your requirements!*
Application
For the past 25 years we have designed and built our vacuum cross beams. Still they are in use and show thereby their robustness and quality. Our current cross beams always correspond to the best available technology. They will be developed all the time as technical innovation and new knowledge integrates in our construction.
Use our technology and profit from our experience.

We adapt each solution individually to your requirements. The manifoldness and flexibility will convince you. Reliability and safety will be assured by a high powered electric vacuum pump. The combination of a large vacuum tank and a visual and acoustic warning system will complete the safety package. The current vacuum level can be read any time through a vacuum gauge.

The design and production occurs after exact specifications given through your filled out questionnaire. On the following pages you can see some examples of lifters which we have built already.

Technical details
These special designs will be adapted individually on your requirements. The production of the device occurs after exact given specifications.

Features
- Long service life through using high quality materials
- Electric or pneumatic high-efficiency vacuum pump
- Quantity of suction cups configurable
- Wide range of suction cups (material and profile) for lifting different materials (metal, plastic, glass, etc.)
- Acoustic warning system incl. rechargeable battery for safety (works also by power outage)
- Operation through push button, one button for vacuum generation, two buttons (have to be pushed at the same time) for release
- Vacuum gauge, large pressure tank with check valve
Special designed vacuum lifters
Examples

**TA-VHT-500**

for the transport of rubber mats with following datas:

- **Length:** from 1.400 mm till 2.500 mm
- **Width:** from 625 mm till 1.400 mm
- **Lifting capacity:** until 500 kg

Each solution can be adapted individually to your requirements!

**TA-VHT-400**

for the transport of glass windows with sash bars with following datas:

- **Length:** from 1.000 mm till 3.400 mm
- **Width:** from 1.000 mm till 2.400 mm
- **Material thickness:** from 15 mm till 100 mm
- **Lifting capacity:** until 400 kg
**Special designed vacuum lifters**

**Examples**

**TA-VHT-750**

for the transport of glass windows with sash bars with following datas:

- **Length:** from 1.600 mm till 2.000 mm
- **Diameter:** 270 mm
- **Lifting capacity:** until 750 kg

![Image of TA-VHT-750](image)

Each solution can be adapted individually to your requirements!

**TA-VHT-3000**

for the transport of steel bottles with following datas:

- **Length:** until 7.000 mm
- **Width:** until 2.000 mm
- **Lifting capacity:** until 3.000 kg

![Image of TA-VHT-3000](image)
Special designed vacuum lifters

Examples

**TA-VHT-250**

for the transport of sheets with following datas:
- Length: from 6,000 mm till 12,000 mm
- Width: until 1,000 mm
- Lifting capacity: until 250 kg

Each solution can be adapted individually to your requirements!

**TA-VST-60**

for the transport of porous materials, such as, raw chipboards, MDF or OSB boards.
- Length: until 2,000 mm
- Width: until 1,350 mm
- Lifting capacity: until 60 kg

Other dimensions and weights available on request!
Special designed vacuum lifters
Examples

**TA-VST-200**

for the transport and slewing of natural stone sheets / glass panes with following datas:

- Length: until 900 mm
- Width: until 600 mm
- Lifting capacity: until 200 kg

Each solution can be adapted individually to your requirements!

**TA-VHT-1000**

for the transport of steel sheets with following datas:

- Length: until 6,000 mm
- Width: until 2,000 mm
- Lifting capacity: until 1,000 kg
Special designed vacuum lifters
Examples

**TA-VHT-100**
for the transport of switchboards with following datas:
- Length: until 300 mm
- Width: until 300 mm
- Lifting capacity: until 100 kg

**TA-VST-370**
for lifting and slewing of vacuum tight steel bottles with following datas:
- Length: from 1.600 till 2.000 mm
- Diameter: from 269 mm till 405 mm
- Lifting capacity: until 370 kg

Each solution can be adapted individually to your requirements!
**Special designed vacuum lifters**

**Examples**

**TA-VHT-6000**

for lifting steel sheets with following datas:

- Length: until 12,000 mm
- Width: until 3,000 mm
- Lifting capacity: until 6,000 kg
- Material thickness: > 4 mm

**TA-VHT-200**

for the transport of round material with following datas:

- Length: from 800 mm till 1,800 mm
- Lifting capacity: until 200 kg
- Diameter: from 80 mm till 125 mm

*Each solution can be adapted individually to your requirements!*
Discover our entire portfolio of **Timmer’s Own Products**

- Hochdruck-Doppel-diaphragm pumps
- Doppelmembranpumpen
- Proportionaldosierpumpen
- Kolbenpumpen

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