Rope balancers and pivot arms

electrical or pneumatic
**Pneumatic rope balancers**

The pneumatic rope balancer is especially suitable for positioning loads with great sensitivity and for complex joining and assembly tasks. The payload suspended on the rope is balanced using compressed air via a rope drum. This allows components to be positioned with extremely high precision.

**Technical specifications**

**Design variations**
- ceiling-mounted movable on a suspension crane
- floor-mounted in combination with a pivot arm or slewing crane

**Control options**
- one, two or multiple load balancing control
- up/down control with and without no-load balancing
- hand force detection control
- safety functions, such as gripper release
- and many more

**Special features**
- precise and smooth positioning of loads
- Intuitive hand-guidance directly on the workpiece
- fast transfer of loads with short cycle times
- compact design, control and drive all in one housing
- speed limiter as safety device: prevents unacceptably high lifting speeds

<table>
<thead>
<tr>
<th>Basic unit</th>
<th>Load capacity [kg]*</th>
<th>Stroke [mm]</th>
<th>Lifting speed [m/min]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Z-BP</td>
<td>100</td>
<td>2000</td>
<td>0–60</td>
</tr>
</tbody>
</table>

*at 6 bar system pressure
Pneumatic pivot arms

These pivot arms are combined with rope balancers. An extremely comfortable handling for the machine operator is achieved by mounting the hoist on the column whereby only the low mass of the secondary arm needs to be moved. The operator can choose between different model series - depending on the component weight - to achieve the optimum ratio between payload and moving mass.

Especially for low payloads we recommend our carbon series. Compared to the steel version, the dead mass is reduced by 75%. This considerably increases the productivity, joining accuracy and worker acceptance of your employees.

Technical specifications

Design variations
» floor-mounted on a column
» ceiling-mounted stationary
» ceiling-mounted and traversable in a suspension crane or rail system

Control options
» one, two or multiple load balancing control
» up/down control with and without load balancing
» hand force detection control
» safety functions, such as gripper release
» and many more

Options
» brakes
» maintenance unit
» slewing angle sensor
» mobile base plate
» endless rotation at the column
» and many more

<table>
<thead>
<tr>
<th>Basic unit</th>
<th>Load capacity [kg]*</th>
<th>Working radius [mm]</th>
<th>Lifting speed [m/min]</th>
<th>Slewing range [°]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Z-KL</td>
<td>80</td>
<td>3200</td>
<td>0 – 60</td>
<td>330</td>
</tr>
<tr>
<td>Z-KMP</td>
<td>80</td>
<td>3800</td>
<td>0 – 60</td>
<td>330</td>
</tr>
<tr>
<td>Z-KC</td>
<td>80</td>
<td>4000</td>
<td>0 – 60</td>
<td>330</td>
</tr>
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</table>

*at 6 bar mains pressure/Special designs are possible upon request!
**Electric rope balancer**

The electric rope balancer is especially suitable for demanding tasks when positioning workpieces with great sensitivity and with no pneumatical air supply available. With it, all tasks for picking up, transporting and positioning loads can be carried out precisely. While using the joining mode, the machine operator can position and join the component directly, without actuating any additional control buttons.

**Technical specifications**

**Design variations**
- ceiling-mounted and traversable in a suspension crane or rail system
- stationary when mounted on a pivot arm

**Control options**
- continuous up/down control via hand force control
- intuitive hand-guidance directly on the workpiece

**Special features**
- freely parameterizable operating modes for guiding and joining
- ergonomic control handle for fatigue-free working
- high safety through permanent load monitoring
- easy to install thanks to 230 V supply
- parameterization directly via buttons on sensor grip

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<tbody>
<tr>
<td>Z-BE</td>
<td>100</td>
<td>2000</td>
<td>0 – 42</td>
</tr>
</tbody>
</table>
**Electric pivot arms**

The electric pivot arm is the right choice for applications with higher payloads or where an electric hoist needs to be used. It is characterized by its ergonomic and compact design. The pivot arm can be combined with an electric rope balancer or with a rope hoist.

The ZASCHE pivot arm are characterized by their low-maintenance components and simple, intuitive operation. Additional options, like e.g. to control the brake via the light barrier of the handle, enables greater effectiveness through less operating effort.

**Technical specifications**

**Design variations**
- floor-mounted on a column
- ceiling-mounted stationary
- ceiling-mounted and traversable in a suspension crane or rail system

**Control options**
- continuous up/down control via hand force control
- intuitive hand-guidance directly on the workpiece
- and many more

**Options**
- brakes
- maintenance unit
- slewing angle sensor
- mobile base plate
- endless rotation at the column
- and many more

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</tr>
</thead>
<tbody>
<tr>
<td>Z-KME</td>
<td>80</td>
<td>4000</td>
<td>0–42</td>
<td>330</td>
</tr>
<tr>
<td>Z-KME</td>
<td>125</td>
<td>3500</td>
<td>0–42</td>
<td>330</td>
</tr>
<tr>
<td>Z-KME</td>
<td>160</td>
<td>3000</td>
<td>0–42</td>
<td>330</td>
</tr>
</tbody>
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Special designs are possible upon request!
Load handling attachment

Load handling module
No matter if you need a standardized or customized gripper, a simple mechanical or pneumatically driven load handling device, ZASCHE handling consults you for every handling task you might have. Not only do we attach great importance to functionality, but also to ergonomics and operator friendliness.

Maximum Flexibility
The attachment bracket enables the quick, easy and safe exchange of various load handling attachment without long changeover time.

Full service – your all-round carefree package.
Our experienced and qualified experts, as well as crane experts authorized by the trade association, are happy to answer any questions you may have about technical matters, repairs, safety checks, training courses and spare and wear parts.

We also offer you a maintenance contracts by request to ensure that your security checks are automatically carried out on schedule.

Contact Service Team
Phone: +49 (0) 9081 8017 - 0
Email: service@zasche.de
**Light crane systems**

We can offer you a large number of tailor made single or double girder crane systems from various steel or aluminum profiles from a comprehensive modular system.

**Steel superstructure/crane suspension system**

In case you need a steel superstructure for the operation of suspended crane systems or ceiling-mounted handling equipment we are happy to plan and implement this for you. We have in-house specialist engineers, certified welding personnel and suitable equipment in our production facilities exactly for this purpose.
Your reliable global partner for manual handling.

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