



OKTOPUS[®] PANEL-Jack

Vacuum lifting devices
for construction site applications

Crane attachment devices:

Installation of horizontal wall elements



OKTOPUS® Panel-Jack KT-B with oval suction cups for the installation of trapezoidal elements



Special design of the OKTOPUS® Panel-Jack KT-B with counterweight system for the installation of corner elements



Installation of horizontal wall elements with the OKTOPUS® Panel-Jack KS-B

OKTOPUS® PANEL-Jack vacuum lifting devices are designed especially for transport, handling and installation of cladding, roofing and ceiling panels (sandwich panels) at construction sites.

The product line PANEL-Jack stands out due to:

- ◇ an independent 24-V-battery supply with rechargeable high capacity batteries for vacuum generation and load positioning
- ◇ the integrated automatic energy-saving function for a reduced pump running time and a maximized operating time of the device
- ◇ comprehensive safety features like:
 - at least 2 independent vacuum circuits with a 2-fold safety per circuit
 - non-return valves, vacuum gauges and vacuum reservoirs
 - optical and acoustical signalling devices to monitor the vacuum function
 - electrical or manual operated two-action control of the release function
 - doubled operation times compared to contrastable 12-V-systems
 - charge indicator with an additional acoustic signalling of a power failure
- ◇ the minimized expenses for service and preventive maintenance
- ◇ spring-mounted suction cups, quick couplings, adjustable crane adapters, optional available cable or radio remote control
- ◇ Safe Working Loads up to 600 kg
- ◇ electrical/electro-hydraulic positioning facilities on certain devices (up to 6 degrees of freedom)



OKTOPUS® Panel-Jack KS-Compact as a crane attachment device



Installation of vertical wall elements



Vacuum based installation of 12 m long wall panels with the **OKTOPUS® PANEL-Jack KS-B**



The photo shows the installation of 17 m long elements with the **OKTOPUS® PANEL-Jack KT-B**.



The **OKTOPUS® PANEL-Jack KS-Compact** has a big multi-chamber suction cup (4 chambers) with a Safe Working Load of 400 kg.

In case of vacuum based installation of vertical wall panels the length of the panels to be installed is limited mainly by their inherent rigidity and the adherence of the bonding between the cover layer and the insulating core.



To install vertical wall elements, the elements are suctioned in their upper third. With this off-centre position and the own weight of the element, a lever effect is created during the lifting movement of the hoist, which facilitates the rising of the element into an upright position.

If the surface of the construction element is provided with a protective film, the film has to be removed, at least within the range of the suction cups before putting on the **OKTOPUS®**.

Crane attachment devices:

Installation of roof elements



With the device **OKTOPUS® PANEL-Jack KT-B** and the **crossbeam DT10** developed for this the assembly of up to 24 m long and 600 kg heavy roof elements is possible.



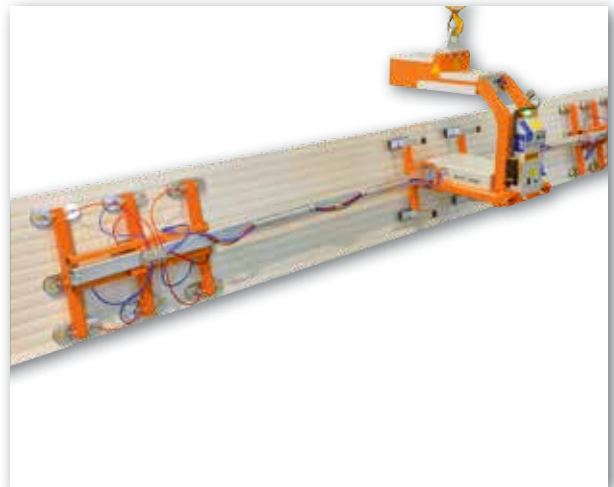
The crossbeam of the **OKTOPUS® PANEL-Jack KS-B** can be extended in 3 steps (3,90/6,0/8,0 m) and allows the installation of up to 17 m long roof panels.



Spring-loaded and laterally adjustable oval suction cups facilitate the adaption to nearly all profile geometries.



Depending on the type of device and the type of application, electrical (operating panel / cable remote or radio remote control) or mechanical operated controls are used.



OKTOPUS® PANEL-Jack PT400 during the turnover of a panel.

A special problem arises if the elements are delivered face-to-face by the manufacturer because of transport economy reasons.

With the **OKTOPUS® PANEL-Jack PT400** the elements, lying on the A-side, are directly lifted from the stack and installed on the roof.

The elements, lying on the B-side, are first rotated by 180° with the **PT400** and then installed with this device.



The **OKTOPUS® PANEL-Jack PT400** during the installation of roof elements.

Forklift truck attachment devices:



Installation of horizontal wall elements



The two hydraulic functions integrated at the **OKTOPUS® PANEL-Jack GI-B400**, facilitate the exact adjustment of horizontal wall elements.

The cable remote control (15 m cable on a cable drum) allows a comfortable control of the positioning and vacuum functions from the driver seat of the forklift truck.



Because of its manually around two axes rotatable suction frame the **OKTOPUS® PANEL-Jack GL-E** can be used as a crane as well as a forklift attachment device for the installation of horizontal or vertical wall elements.

The hydraulically operated side shifter, integrated in the forklift truck adapter, facilitates the horizontal fine positioning of the panels.



The **OKTOPUS® PANEL-Jack IT-BT500** possesses a total of 6 electro-hydraulic operated positioning facilities (including a telescopic main arm). Therefore, this device is the most universally applicable device of the **OKTOPUS® PANEL-Jack** product range.



The forklift truck adapter of the **OKTOPUS® PANEL-Jack KS-Compact** is extendable and can be folded to reduce the transport dimensions.

Forklift truck attachment devices:

Installation of vertical wall elements



Installation of vertical wall panels with the **OKTOPUS® PANEL-Jack GI-B400**



The low own weight and the compact dimensions of the **OKTOPUS® PANEL-Jack KS-Compact** and the belonging forklift adapter facilitate the transport in nearly every estate car or van.



OKTOPUS® PANEL-Jack GL-E with forklift truck adapter and integrated hydraulic side shifter.



When installing vertical wall elements with forklift truck attachments like the **OKTOPUS® PANEL-Jack GI-B400** or the **KS-Compact**, it is recommended to use a forklift truck with an integrated side shifter.

In case of the **OKTOPUS® PANEL-Jack GL-E** the hydraulic side shifter, integrated in the forklift truck adapter, performs this task.

The suction frame, which can be tilted hydraulically around the horizontal axis, facilitates the raising of even extremely heavy sandwich panels from the delivery into the installation position.



Installation of ceiling elements



The **OKTOPUS® PANEL-Jack GI-B400** is the typical device for the cold room construction. Besides the installation of horizontal or vertical wall elements the **GI-B400** enables the installation of ceiling panels.



Thanks to the varied positioning facilities of the **OKTOPUS® PANEL-Jack IT-BT500**, not only the installation of ceiling and horizontal or vertical wall elements is possible.

Also, doors, gates, windows, sliding elements, etc. can be loaded, transported and installed with this device.



The photo shows the installation of conically cut ceiling elements with the **OKTOPUS® PANEL-Jack IT-B**.



Hydraulically rotary drives facilitate the rotating (360°) and the tilting ($\pm 180^\circ$) of the suction frame of the **OKTOPUS® PANEL-Jack IT-BT500**.



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