

# OKTOPUS® GLASS-Jack GL-RN 400/600/800

Wirth vacuum lifting device for the installation  
of flat and curved glass elements



# OKTOPUS® GLASS-Jack GL-RN 400/600/800

## Use of GLASS-Jack GL-RN 400/600/800

With a very low total weight (depending on the equipment) of 55 - 80 kg only, the OKTOPUS® GLASS-Jack GL-RN 400/600/800 is the perfect device for handling glass panes and window elements up to a maximum weight of 800 kg.

The optional available suction pad adapter for curved panes also allows handling convexly or concavely curved panes with bending radii  $\geq 1000$  mm and a maximum weight of up to 320 kg.

The suction areas of the elements to be lifted have to be air-impermeable, have to have a clean surface and must not be covered with protective foil.



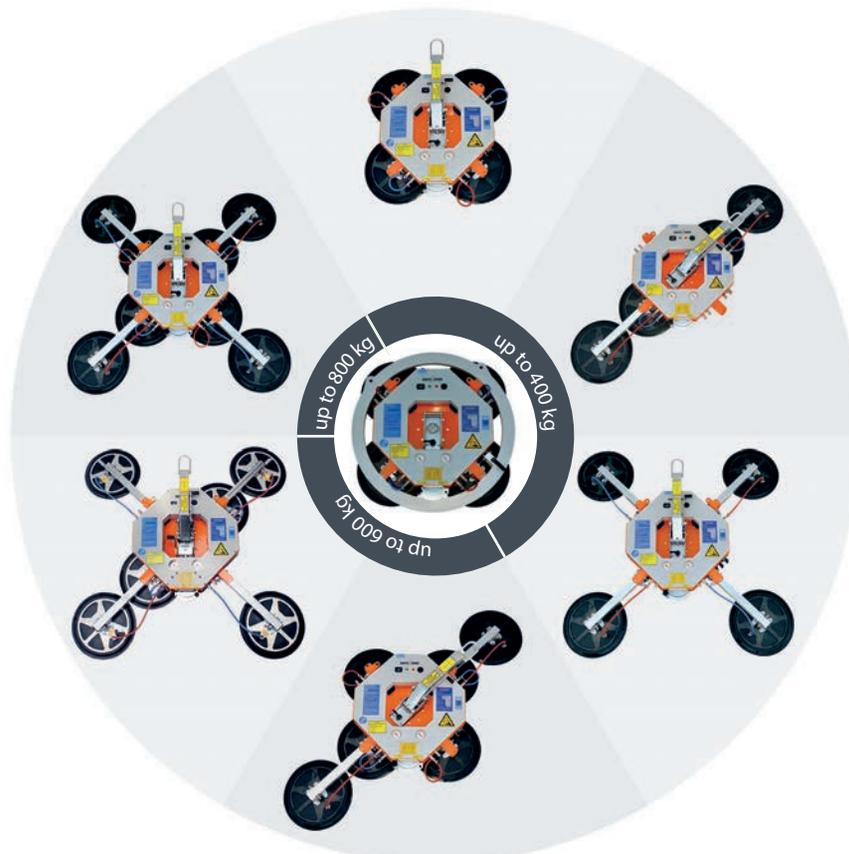
OKTOPUS® GL-RN in the transport cart

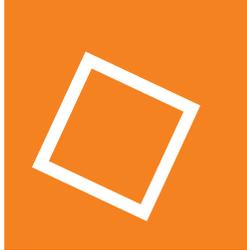
## Technical details

- one device for three load classes (400/600/800 kg)
- increasing the Working Load Limit by mounting additional suction pads (4 pieces: 400 kg, 6 pieces: 600 kg, 8 pieces: 800 kg)
- 2 independent vacuum circuits
- each vacuum circuit with 2-fold safety and integrated vacuum reservoir
- integrated measuring devices to monitor vacuum and power supply
- deviations from the nominal condition are indicated by optical and acoustical warning devices
- integrated pressure switch control indicating malfunctions
- off-grid battery powered energy supply (24 V) with high capacity
- energy-self-sufficient indicator for interruptions in energy supply
- pressure switch controlled energy saving function to reduce pump running times and increase operating times of the devices
- extension arms allow handling of large-sized elements as well
- compliance with all criteria of DIN EN 13155
- CE mark according to European Machinery Directive 2006/42/EC
- optional with manually operated valves, cable remote control or radio remote control

## One device – seven different ways to configure the device for handling even panes

By mounting additional suction pads and extension arms the Working Load Limit of the OK-TOPUS® GLASS-Jack GL-RN 400/600/800 can be increased from 400 kg up to maximum 800 kg.





### Handling curved glass panes with the OKTOPUS® GL-RN 400/600/800

The adapter for curved glass panes was designed as an attachment for the OKTOPUS® GLASS-Jack GL-RN 400/600/800. It can be used to either manipulate convexly or concavely curved glass panes with a radius of at least 1.0 meter, or to lift and install flat glass elements. The 14 suction pads in total allow safely lifting and transporting loads of up to 320 kg. The total weight of the OKTOPUS® GLASS-Jack GL-RN 400/600/800 with mounted adapter for curved glass panes amounts to 75 kg.



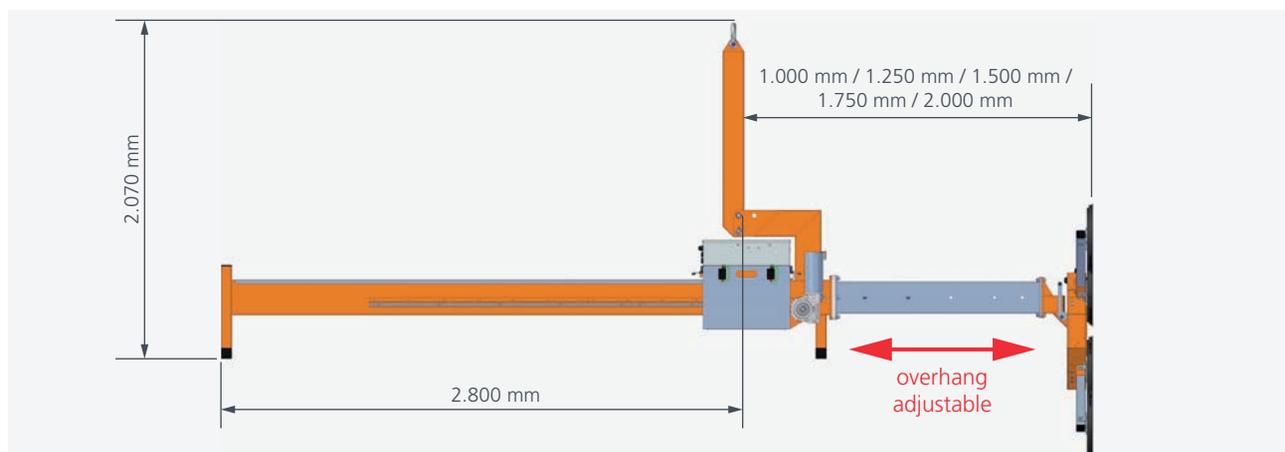
The steplessly variable suction pad adapter allows suctioning convexly and concavely curved panes with radii  $\geq 1.0$  m.

### OKTOPUS® GL-RN 400/600/800 combined with a counterweight balancer

Counterweight balancers combined with vacuum lifters serve for safely and ergonomically installing glasses or window elements in difficult to access areas – such as under canopies, balconies, eaves etc. The vacuum lifter can directly be connected to the counterweight balancer with an interchangeable adapter or alternatively, it can be mounted to the load hook of the counterweight balancer while maintaining the rotating and tilting function.

It is important that the Release function of the vacuum lifter is coupled electrically to the position of the travelling cage of the counterweight balancer. In this way it can be ensured that the counterweight balancer remains in a neutral, balanced position after performing the command Release of the suctioned load.

The OKTOPUS® GL-RN 400/600/800 vacuum lifting devices can optionally be equipped with a function that controls the travelling cage of the counterweight balancer.





# OKTOPUS® GLASS-Jack GL-RN 400/600/800

## Glass installation between scaffolding and façade with an OKTOPUS® GL-RN 400/600/800

The very low construction height of the OKTOPUS® GLASS-Jack GL-RN 400/600/800 of 140 mm only (after dismantling the crane arm) allows installing glass and facade elements in the clearances between building façade and scaffolding in front of it that are usually only 30 cm in depth.

For this purpose the GL-RN 400/600/800 is either mounted with shackles to the crane eyes (image above on the left) or it is rotatable mounted with guide rollers to the specifically designed and patented guide ring which is attached to the crane (image below on the right). In this way even long panes can vertically be passed through the scaffolding anchors, then rotated and mounted horizontally.



## OKTOPUS® GL-RN 400/600/800 with different crane arms

As standard the OKTOPUS® GL-RN 400/600/800 devices are equipped with a short crane arm with rigid crane eye. Optionally, it is also possible to use height-adjustable crane arms with crane eye adjustable in inclination or crane arms with hydraulically supported lowering cylinder with stop valve.



OKTOPUS® GL-RN 400/600/800 800 with standard crane arm, height-adjustable crane arm with crane eye adjustable in inclination and crane arm with hydraulic lowering cylinder

Subject to change in the interest of technical progress.

MU100\_18\_Ausg.: 03/18

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