



OKTOPUS[®] Handling Systems

ERGO-Jet

ERGO-Lift

ERGO-Pick

ERGO-Sprint

ERGO-Up

OKTOPUS® handling systems

Handling devices of the product range OKTOPUS®

- ◇ ERGO-Jet
- ◇ ERGO-Lift
- ◇ ERGO-Pick
- ◇ ERGO-Sprint
- ◇ ERGO-Up

ensure a material friendly and ergonomically handling as well as a safe and fast transport at a reasonable price in every flat glass and plate processing branch of industry.



Always the ideal device

- ◇ Dropping down and picking up glass panes on vertical I.G. glass lines
- ◇ Picking up and turning over of coated glass / processing the back side
- ◇ Loading and unloading at vertical / horizontal glass processing machines
- ◇ Picking up horizontally and placing vertically
- ◇ Glazing of window and door elements
- ◇ Vertical transport of glasses / elements in storage or in cutting areas
- ◇ Handling of convex or concave curved glass lites
- ◇ Handling of extremely large glass formats

OKTOPUS® ERGO-Jet



OKTOPUS® ERGO-Jet

Because of their rigid load guidance, handling devices of the ERGO-Jet series are particularly suitable for handling large and heavy panes / elements by only one operator.

Vacuum generation as well as actuation of the lifting, rotating, inclining, tilting and turning-over movements is effected pneumatically.

Using only a single energy source (compressed air) leads to reduced maintenance and servicing requirements.



Application data	
Max. glass dimensions	Depending on the geometry of the suction frame and glass thickness, recommended up 2.600 x 3.210 mm
Safe Working Load	150 / 250 / 350 / 500 kg
Lifting / lowering	Pneumatically, stepless by extendable lifting cylinder
Rotating device	Manually 360° in the lifting column
Movements suction frame	Rotating 90° / 180°, pneumatically Inclining 82° / 84°- 90°, pneumatically Tilting 0°- 82° / 90°, pneumatically Turning-over 180°, pneumatically
Suction frame	X-shaped or rectangular, with telescopic extensions
Vacuum generation	Ejectors with non-return valve, with / without automatic energy saving
Energy supply	Compressed air 6-9 bar Quick coupling 1/4", 1/2", 3/8"
Colour	Lifting column RAL 9006, white aluminium Suction frame RAL 2011, deep orange



The manually operated control valves ensure very precise adjustable positioning movements.

Applying mainly aluminium and optimized light-weight profiles result in a low own weight and a comfortable effortless handling.

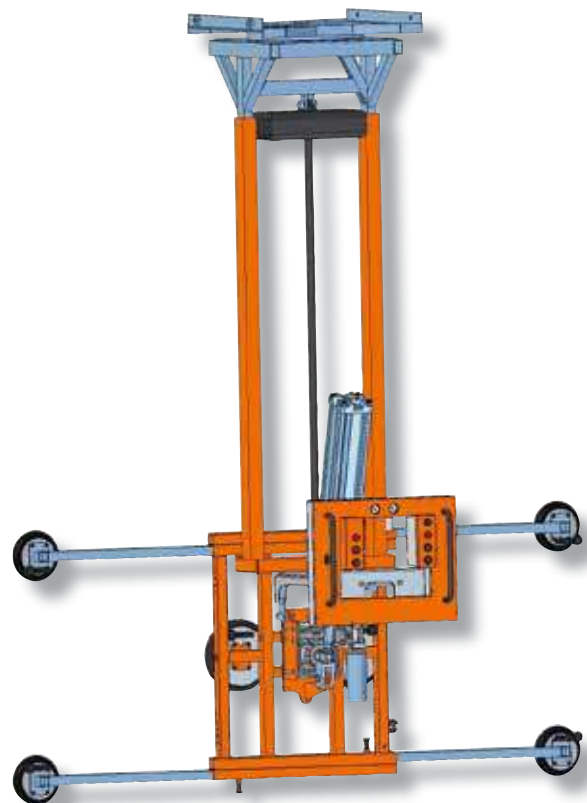
OKTOPUS® ERGO-Lift

OKTOPUS® ERGO-Lift

The OKTOPUS® ERGO-Lift rounds out the product range of rigidly guided handling devices for loads up to 1000 kg.

ERGO-Lift handling devices are attached to X-Y light weight cranes. The use of electrical powered drive systems facilitates endless rotation by 360° of the suctioned elements.

Application data	
Max. glass dimensions	Depending on the geometry of the suction frame and glass thickness, recommended up 2.600 x 3.210 mm
Safe Working Load	250 / 500 / 750 / 1.000 kg
Lifting / lowering	Stepless by electric motor drive (chain hoist)
Rotating device	Manually 360° in the double-rail crane trolley
Movements suction frame	Rotating 90° / 360°, electrically Inclining 82° / 84°- 90°, pneumatically / electrically Tilting 0°- 82° / 90°, pneumatically / electrically
Suction frame	X-shaped or rectangular, with telescopic extensions
Vacuum generation	Ejectors with non-return valve, with / without automatic energy saving or electrical vacuum pumps
Energy supply	Compressed air 6-9 bar Quick coupling 1/4", 1/2", 3/8" Electricity: 400V, 230V
Colour	RAL 9006, white aluminium RAL 2011, deep orange



Apart from that, different energy sources (compressed air, 400V, 230V) can be used or combined for vacuum generation and positioning loads depending on the case of application.

OKTOPUS® ERGO-Pick



OKTOPUS® ERGO-Pick

The OKTOPUS® ERGO-Pick is a very light and extremely fast pneumatically operated vacuum lifting device at a low price.

It can be used with single railway systems, does not need a chain hoist and has its advantages in controlled load guidance in a pneumatic lifting cylinder and in immediate vacuum generation (central ejector) at glass contact.



Application data

Max. glass dimensions	Depending on the geometry of the suction frame and glass thickness, recommended up 2.600 x 3.210 mm
Safe Working Load	150 / 250 / 350 / 500 kg
Lifting / lowering	Pneumatically, stepless by extendable lifting cylinder
Rotating device	In the trolley adapter, manually 360°
Movements suction frame	Rotating 90° / 180° manually / pneumatically Tilting 0°- 82° / 90° pneumatically
Suction frame	X-shaped or rectangular, with telescopic extensions
Vacuum generation	Ejectors with non-return valve, with/without automatic energy saving
Energy supply	Compressed air 6-9 bar Quick coupling 1/4", 1/2", 3/8"
Colour	RAL 9006, white aluminium Suction frame RAL 2011, deep orange



The OKTOPUS® ERGO-Pick is the ideal device to improve with little effort production processes for flat glass processing companies or in window production in order to reduce costs significantly.

OKTOPUS® ERGO-Sprint

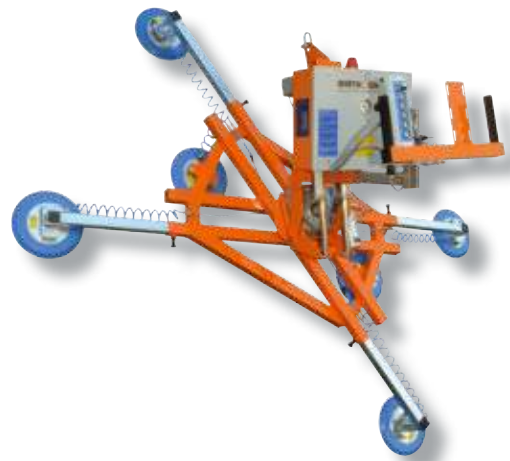
OKTOPUS® ERGO-Sprint

The vacuum lifting devices of the ERGO-Sprint product range are especially designed for shop floor operation in combination with overhead cranes, X-Y lightweight cranes or slewing cranes. Customized solutions allow operation by fork lift.

A variety of suction frame versions ensures optimal adjustment to different glass loads and geometries – also for curved glass panes.



Application data							
Max. glass dimensions	Depending on the geometry of the suction frame and glass thickness, up to 3.300 x 18.000 mm						
Safe Working Load	150 / 250 / 350 / 500 / 750 / 1.000 / 2.000 / 3.000 kg Customized solutions up to 6.500 kg and for curved glass						
Lifting / lowering	By chain hoist or rope hoist or with fork lift (all provided by the customer)						
Rotating device	In the crane hook, manually 360°						
Movements suction frame	<table border="0"> <tr> <td>Rotating</td> <td> <ul style="list-style-type: none"> • 0° - 90°, manually / pneumatically / electrically • +/- 90°, manually • 360°, manually / electrically </td> </tr> <tr> <td>Tilting</td> <td> <ul style="list-style-type: none"> • 0° - 90°, manually / pneumatically / electrically </td> </tr> <tr> <td>Turning-over</td> <td> <ul style="list-style-type: none"> • 0° - 180°, pneumatically / electrically </td> </tr> </table>	Rotating	<ul style="list-style-type: none"> • 0° - 90°, manually / pneumatically / electrically • +/- 90°, manually • 360°, manually / electrically 	Tilting	<ul style="list-style-type: none"> • 0° - 90°, manually / pneumatically / electrically 	Turning-over	<ul style="list-style-type: none"> • 0° - 180°, pneumatically / electrically
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Tilting	<ul style="list-style-type: none"> • 0° - 90°, manually / pneumatically / electrically 						
Turning-over	<ul style="list-style-type: none"> • 0° - 180°, pneumatically / electrically 						
Suction frame	X-shaped or rectangular, if applicable with telescopic extensions or as spreader beam, if applicable with cross beams						
Vacuum generation	By ejectors with non-return valve, with / without automatic energy saving or by electrical vacuum pumps						
Energy supply	Compressed air 6-9 bar Quick coupling 1/4", 1/2", 3/8" Electricity: 400V, 230V, 24V battery						
Colour	RAL 9006, white aluminium RAL 2011, deep orange						



Depending on the application different energy sources (compressed air, 400V, 230V, 24V) can be used or combined for vacuum generation and for positioning the load.

OKTOPUS® ERGO-Up

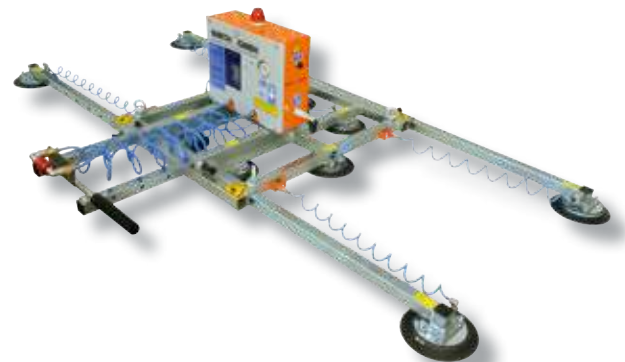


OKTOPUS® ERGO-Up

The product range of the ERGO-Up includes all devices for in-house transport and handling of glass panes or glass elements which do not need any manual or motor-driven positioning facilities.



Application data	
Max. glass dimensions	Depending on the geometry of the suction frame and glass thickness, up to 3.300 x 18.000 mm
Safe Working Load	150 / 250 / 350 / 500 / 750 / 1.000 / 2.000 / 3.000 kg Customized solutions up to 6.500 kg and for curved glass
Lifting / lowering	By chain hoist or rope hoist or with fork lift (provided by the customer)
Rotating device	In the crane hook, manually 360°
Suction frame	X-shaped or rectangular, if applicable with telescopic extensions or as spreader beam, if applicable with cross beams
Vacuum generation	By ejectors with non-return valve, with / without automatic energy saving or by electrical vacuum pumps
Energy supply	Compressed air 6-9 bar Quick coupling 1/4", 1/2", 3/8" Power: 400V, 230V, 24V battery
Colour	RAL 9006, white aluminium RAL 2011, deep orange



WIRTH crane systems

Lightweight cranes (X-Y-craneways)

The **WIRTH** X-Y-crane system offers tangible advantages for users and applications.

- ◇ Custom-made and at the same time economic solutions thanks to the modular construction system
- ◇ Many possibilities of suspensions: at existing pillars and girders, ceiling beams and roof slabs, at brackets or corbels or on separate pillars
- ◇ On request, calculation and delivery of possibly necessary steel substructures
- ◇ A minimum number of components to simplify assembly
- ◇ Friction drives for bigger crane dimensions and / or heavier loads
- ◇ On request, installation by our assembly team

Slewing cranes

Pillar or wall-mounted slewing jib cranes from **WIRTH** are an economic alternative to X-Y-craneways for works in circular areas.

- ◇ Depending on the conditions, delivery as wall-mounted slewing crane or pillar slewing crane
- ◇ Slewing angles from 180° to 270°
- ◇ Slewing drives for manipulating higher loads are optionally available.
- ◇ Jib lengths up to 6 m
- ◇ Single or double rail jib depending on the application
- ◇ Custom-made dimensioning of lifting height and lower edges of the jib

