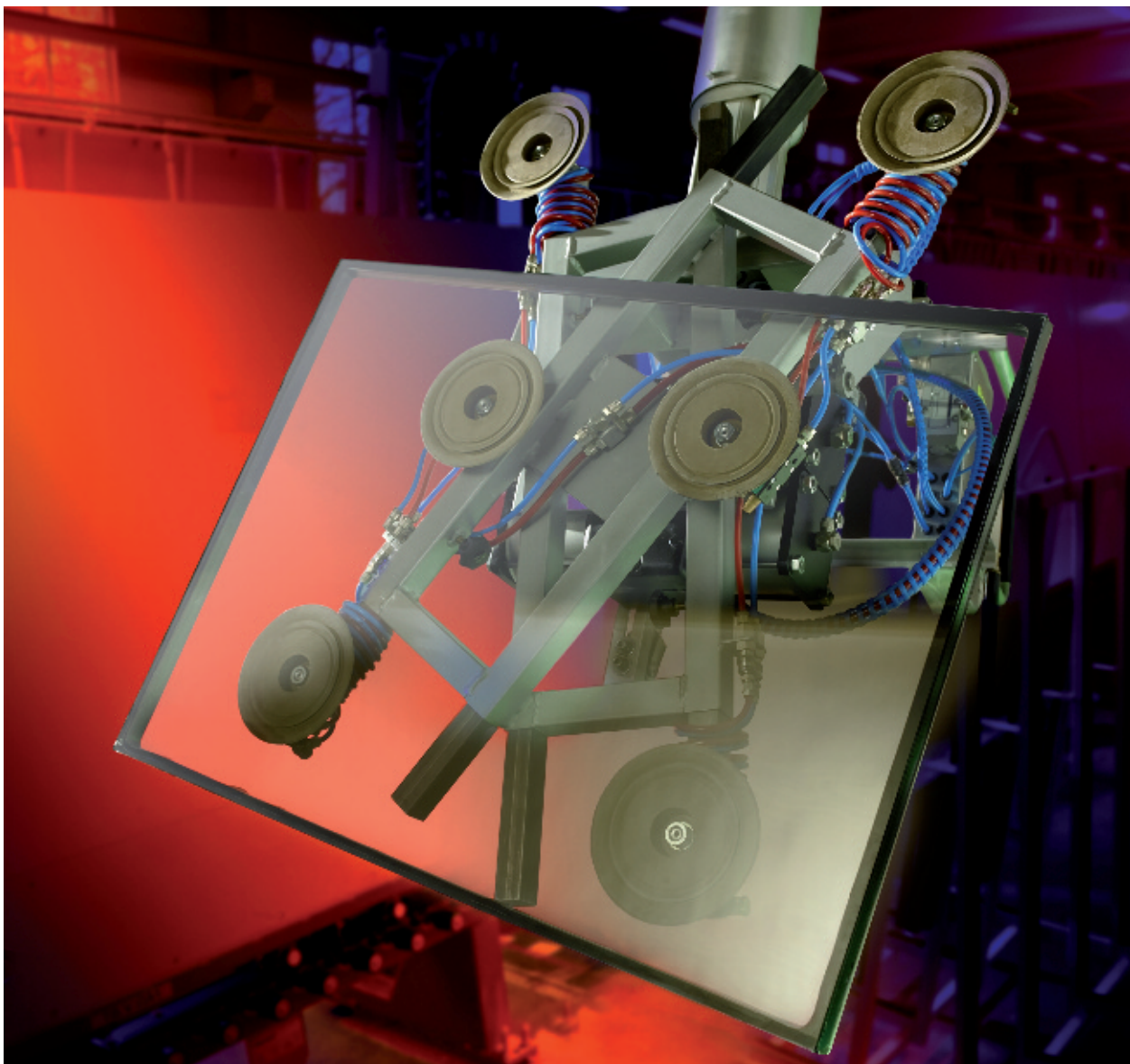


## Handling systems for flat glass and plates

Economic handling equipment for all sectors of sheet and  
flat glass processing



# handling systems

## Variety of handling systems

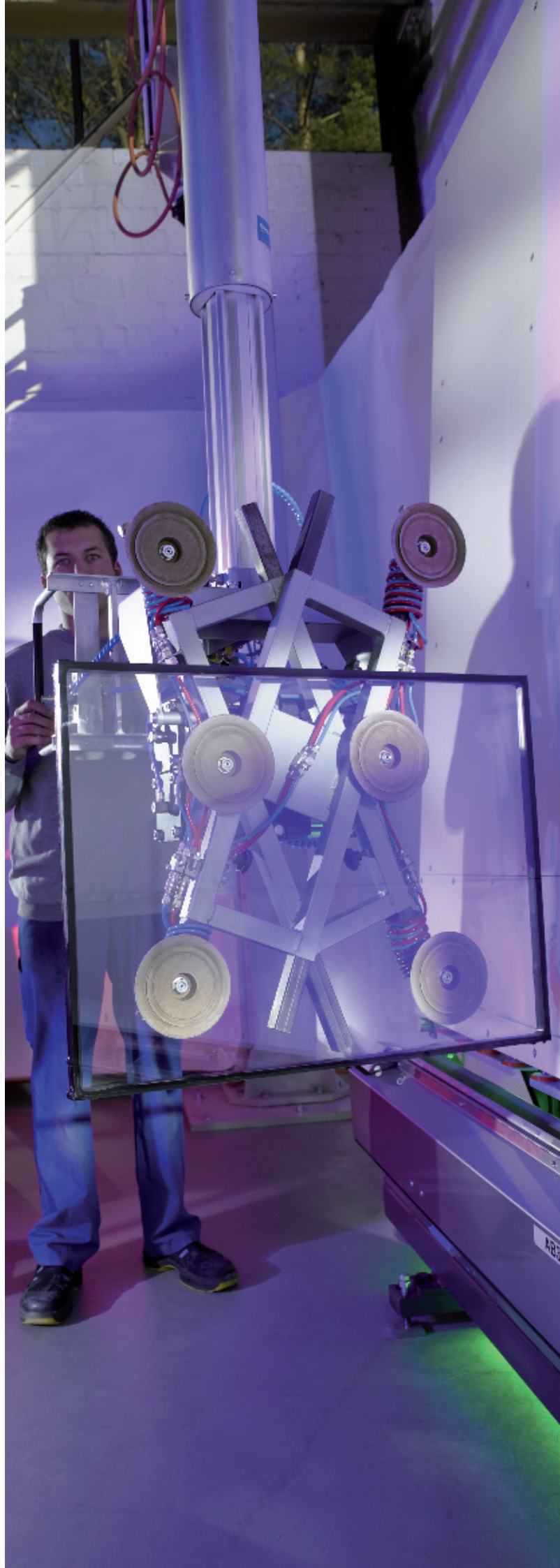
Bystronic glass handling systems ensure easy and safe transport. They allow a flexible and economic use in every flat glass and plate processing branch of industry. The remarkable features of our tried, proven and innovative technology are not only reliable and of the highest quality, but also have the following clear advantages:

- ♦ Careful handling of load
- ♦ Minimized effort
- ♦ Fast, timesaving operation
- ♦ Advantageous cost reduction

## Choose the suited vacuum generation for your individual needs:\*

- ♦ Electrically or pneumatically driven vacuum pump
- ♦ Venturi method combined with locking valves: this safety installation continually maintains the vacuum within the suction pads should the glass pane have to be put down because of a sudden loss of compressed air
- ♦ Venturi method combined with locking valves and economic operation: the compressed air is automatically switched on and then off when the vacuum is reached and respectively drops down

\*excluding battery suction unit





## Easy-Lift

- ♦ Low own weight thanks to a high-quality aluminium construction, enabling a surprisingly soft-running handling
- ♦ Possible functions: lifting, tilting (or inclining) and rotating
- ♦ Safe working load: 150 / 250 / 350 / 500 kg
- ♦ Vacuum generation using Venturi nozzles or pneumatically driven vacuum pump



## Handy

- ♦ For a fast, safe and easy vertical transporting
- ♦ Possible functions: lifting, tilting, inclining and turning (also endless)
- ♦ Safe working load: 150 / 250 kg

### Option:

- ♦ Electrical vacuum pump



## Cylinderlift

- ♦ Easy to use lift for dropping down and picking up glass panes on vertical I.G. production lines
- ♦ Possible functions: lifting and turning
- ♦ Safe working load: 250 kg
- ♦ Especially for smaller units (up to approx. 2 m<sup>2</sup>)



## Hoisting/turnover manipulator

- ♦ Especially developed for the 180° turnover of panes
- ♦ Ready to be hung into a craneway
- ♦ Safe working load: 150 / 250 / 300 kg



## Isolift

- ♦ Easy handling of big, heavy glass plates
- ♦ Used in lightweight X-Y-craneways
- ♦ Possible functions: lifting, tilting (alternatively pneumatically or electronically), inclining (pneumatically) and turning (electronically)
- ♦ Safe working load: 250/500/650/1000 kg
- ♦ The vacuum will be generated alternatively by means of an electrical vacuum pump or Venturi nozzles



## Motorically turning glass manipulator

- ♦ To be hanged in a hoisting gear
- ♦ Function: turning (continually electronically)
- ♦ Applications: vertical glass processing machines e.g. grinding machines, supplement for one-column lift for oversized glass plates
- ♦ Safe working load: 250/500/1000 kg



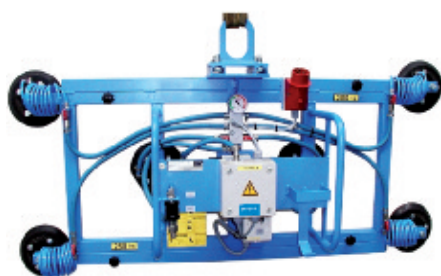
## Pneumatically turning glass manipulator

- ♦ Suction unit for the vertical transport, carry-over or turning
- ♦ Function: turning pneumatically 90°
- ♦ Applications: insulating glass production, window manufacturing
- ♦ Safe working load: 150/250 kg



## Minilift

- ♦ Suction unit to be hanged in a hoisting gear
- ♦ Possible functions: tilting and turning (pneumatically or electronically)
- ♦ Application: can be used extremely efficiently wherever movements from horizontal to vertical positioning have to be made
- ♦ Safe working load: 250/500/1000/1600 kg



Glass suction frame  
GSR

- ♦ Standard manipulator for the vertical transport of heavy and large panes
- ♦ Applications: vertical handling of glass e.g. in storage or cutting areas, picking up from I.G. glass lines
- ♦ Safe working load: 250/350/500/1100/2000/2500 kg



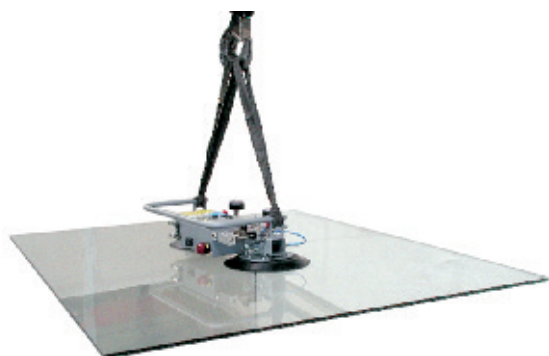
Glass suction frame  
GFSR

- ♦ For the transport of large glass panes
- ♦ Applications: vertical handling of glass e.g. in storage or in cutting areas for jumbo sizes
- ♦ Safe working load: 1000/1400/2100 kg



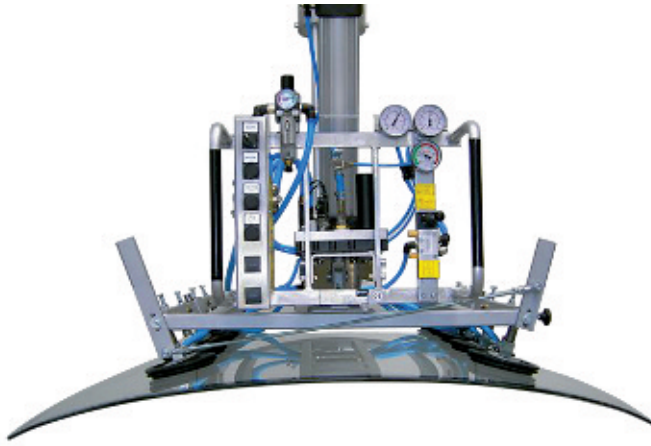
Glass suction beam

- ♦ A very light suction unit for the transporting of glass panes hanged in a hoisting gear
- ♦ Application: vertical handling in glass storage
- ♦ Safe working load: 250/500/600 kg



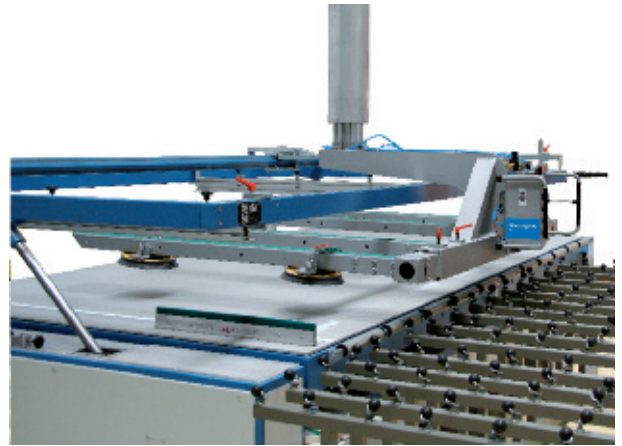
Accumulator-driven suction frames

- ♦ Autarkic, off the line operation devices for mobile use
- ♦ Ideally suited for the use on construction sites
- ♦ Flexible use in different hoists
- ♦ Functions: tilting (hydraulically) and turning (endless manually)
- ♦ Variable combination of suction pads and connectors



## Easy-Lift for curved glass

- ◆ Handling device for convex and concave curved glass lites
- ◆ Functions: stepless, pneumatic turning and tilting from 0 – 90°
- ◆ Safe working load: 250 kg



## Easy-Lift with lift fork

- ◆ Vacuum lift for unloading sieve pressure systems
- ◆ Function: lift rotates horizontally 360°
- ◆ Removable suction pads
- ◆ Damage-free glass transport with rubberized fork arms
- ◆ Safe working load: 350 kg



## Easy-Lift CNC

- ◆ Handling device for loading from CNC centres with closed tops
- ◆ Functions: lifting and tilting; lift turns horizontally 360°
- ◆ Safe working load: 150 kg



## Maxilift 5000

- ◆ Vacuum lifter for handling extremely large glass formats and weights for use on workroom crane
- ◆ Functions: suction frame tilts from 0–90° and can be extended from 10 to 13 meters
- ◆ Safe working load: 5000 kg



## X-Y-craneways in lightweight construction

- ◆ Individual, customized solutions
- ◆ Free-moving with large traversing range
- ◆ Different suspension possibilities, e.g. from existing ceiling beams, hall supporting pillars, jib constructions or on separate pillars
- ◆ If necessary with jib constructions or other steel sub-structure
- ◆ At heavier weights also with two different kinds of friction wheel drive
- ◆ With installation on request



## Slewing cranes

- ◆ The low price solution for working in a circular area
- ◆ As pillar or wall slewing crane
- ◆ At heavier weights also with swivel gear
- ◆ Slewing range 180°/210°/270°
- ◆ Length of jib up to 6 meters
- ◆ Jib can be manufactured with one or two rails – according to application
- ◆ The height up to the lower edge is customized

Bystronic glass is the most competent and reliable partner for services, machinery, plants and systems in the glass processing sector providing total solutions from basic requirements through to integral installations.

**Bystronic**  
glass

handling systems

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