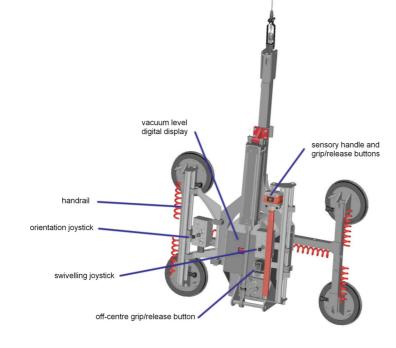
- •Ergonomic operation regardless of operators product size and regardless of the dimensions of the manipulated product.
- •Gripper movements (tilting and/or rotation) are controlled by sensitive joysticks: variable speed, allowing for the precise positioning of the product.
- •Duel Grip/release buttons at the top and the bottom of Zii handle for ergonomic operation.
- •Safeties: Lifting is forbidden if the vacuum level is too low, and release in mid-air is impossible.





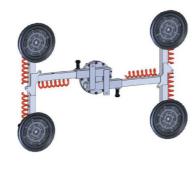


Variable inclination option:

- •This device allows the operator to adjust the angle of inclination when both with and without the product.
- •This option is available for rotary and vertical manipulators

Lifting beams range:

- •Standard lifting beams with 2 or 4 adjustable suction cups
- •Bespoke lifting beams for almost any application







S269 1 M01



TECHNICAL SPECIFICATIONS

SAPELEM > COBOTICS > ERGONOMICS > ZE' SOLUTION GLASS

ZE' SOLUTION GLASS ergonomic manipulator

THE SOLUTION for glass industry:

Range of ergonomic manipulators dedicated to the applications within the glass industry, to assist operators at the key workstations: transfer, pining, palletizing...

Technologies:

- Aluminium arm with low-inertia double articulation.
- Electronic lifting assistance to lift intuitively loads up to 200kg with only a 20g effort.
- Vacuum generation by smart and air saving venturi: digital display, lifting authorization, safe vacuum holding
- · Lifting controls: long sensory handle, right hand
- Movements controls: sensory joysticks for variable speed, up and down, left hand
- Grip-release control: up and down buttons, right hand

Advantages:

- Versatility: gripper adaptable to many formats
- Precision: sensory Zii handle and control joysticks
- Speed: optimal working pace, variable speed
- Ergonomics: RSI removal
- Intuitiveness: naturally following hand movement with no
- · Safety: secured grip-release, alarms, hand detection

Customized:

- Wide work zones: possible to install on rail, under framework, or under a supporting structure.
- Heavy loads: steel arm enabling the handling of loads up to 300kg.
- Services: location and ergonomics expertise
- Special: manipulator conception and manufacture to adapt to specific applications: combined movements, sliding bay windows, lifting capacity, dialogue with the line







SAPELEM has created a range of standard manipulators answering the most common applications.





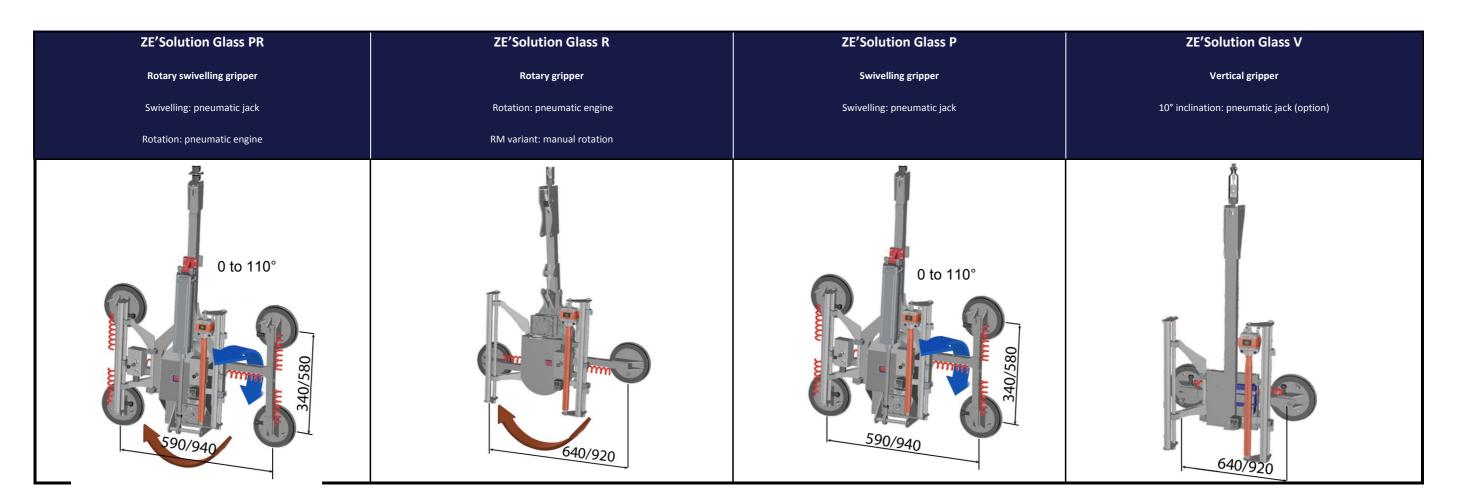


SAPELEM > COBOTICS > ERGONOMICS > ZE' SOLUTION GLASS

ZE' SOLUTION GLASS windows ergonomic manipulator

Using:

The complete range of grippers enables every movement for window applications easy and quick.



Ref.	Max. load capacity	Number of suction cups	Suction cup diameter	Swivelling	Rotation	Inclination	Max. arm reach (m)			Under crossed rails setup	
	Kg	İ	mm	0 to 110°	360°	0 to 10°	3	3.6	4.2	4.7	
PR 90	90	2/4	260 / 190	•	•		•	•	•		•
PR 120	120	2/4	260/ 190	•	•		•	•			•
PR 200	200	2/4	320 / 260	•	•		•				•
R 90	90	2/4	260 / 190		•	Option	•	•	•		•
R 120	120	2/4	260 / 190		•	Option	•	•			•
R 200	200	2/4	320 / 260		•	Option	•				•
RM 60	60	2	190		•	Option	•	•	•		•
RM 90	90	2/4	260 / 190		•	Option	•	•	•		•
P 90	90	2/4	260 / 190	•			•	•	•		•
P 120	120	2/4	260 / 190	•			•	•			•
P 200	200	2/4	320 / 260	•			•				•
V 60	60	2	190			Option	•	•	•	•	•
V 100	100	2/4	260 / 190			Option	•	•	•		•
V 150	150	2/4	320 / 260			Option	•	•			•
V 240	240	2/4	440 / 260			Option	•				•





