

BEFARD



**ASSEMBLY ROBOT
ON TRACKS**

XGR800

BEFARD XGR800

ASSEMBLY ROBOT ON TRACKS

BEFARD XGR and XGRe are modern tracked manipulators designed for the installation of heavy glass panes and windows. Thanks to their caterpillar undercarriage, they perform exceptionally well in challenging construction environments, ensuring stability and mobility even on uneven terrain. Their robust construction allows for the safe transport and precise positioning of glass elements and other heavy loads on the construction site.

The hydraulic head increases installation accuracy, while the compact dimensions make maneuvering in confined spaces easier.

Befard XGR/XGRe are reliable solutions for companies specializing in the installation of window joinery and façades.



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UNMATCHED POWER TO WORK MORE EFFICIENTLY

- Maximum lifting capacity: 800 kg
- One, two or three hydraulic extensions with a total reach of 3.95 m / 4.75 m / 5.55 m
- Radio remote control for both operation and driving
- Dual-circuit vacuum system
- 8 vacuum suction cups
- Rotating suction cup frame – hydraulically operated
- Lateral frame shift (left/right – 10 cm) – hydraulically operated
- Tilting suction cup frame (side tilt relative to the machine – manually or hydraulically operated)
- Tilting suction cup frame for lifting elements from a horizontal plane and hydraulically positioning them vertically
- Non-marking rubber tracks
- Two working modes (turtle/hare)
- Vacuum shut-off valves on each suction cup
- Customizable machine color
- Two working modes (turtle/hare)



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EVERYTHING THAT MATTERS INCLUDED AS STANDARD

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MACHINE REACH

One, two, or three hydraulic extensions with a total reach of 3.95 m / 4.75 m / 5.55 m – depending on the selected configuration.



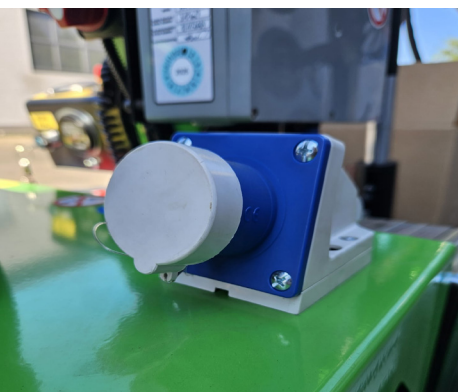
LIFTING CAPACITY

Maximum lifting capacity: 800 kg.
Equipped with 8 vacuum suction cups, each fitted with individual vacuum shut-off valves. Each suction cup operates independently, allowing for quick adjustment of the configuration to match the size of the load.



FULLY REMOTE-CONTROLLED MACHINE

Radio remote control for both driving and crane operation makes handling easier and enhances safety. A charger for the remote control is included as standard.



POWER SUPPLY

The assembly robot can be equipped with three power supply options (depending on the chosen configuration): combustion engine, hybrid combustion-electric (230 V / 400 V / 110 V), or Li-ion batteries – providing full flexibility to operate in any conditions. With the properly configured machine, the operator can freely select the most suitable power source based on the location and nature of the work.

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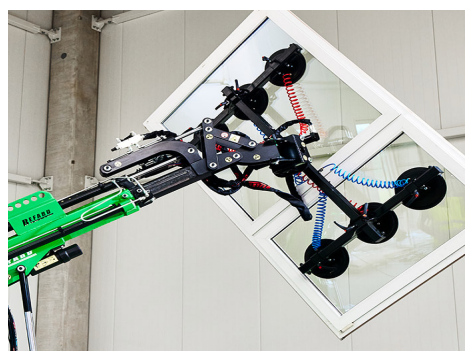
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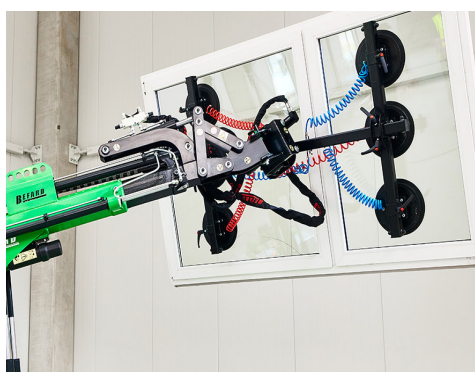
DUAL-CIRCUIT VACUUM SYSTEM

Dual-circuit vacuum system – two independent vacuum circuits enhance operational safety and comply with regulations for glass transportation.



ROTATING FRAME WITH SUCTION CUPS

An advanced hydraulic system enables smooth rotation of the suction cup frame, significantly facilitating precise positioning of glass panes during installation.



LATERAL SHIFT OF THE SUCTION CUP FRAME

The hydraulically controlled lateral shift function (± 10 cm) allows precise positioning of the glass without the need to move the entire machine. This quick and convenient feature enhances installation accuracy, especially in confined spaces.



NON-MARKING TRACKS

The machine comes standard with non-marking tracks that do not leave marks on the surface.

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TWO OPERATING MODES

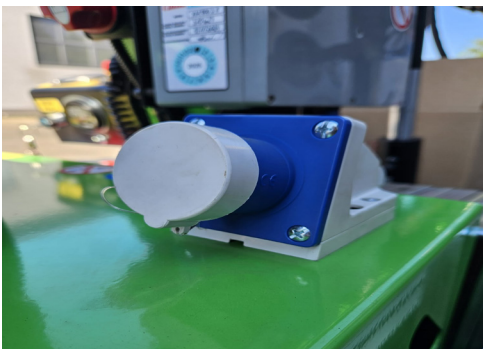
The device features two operating modes – a precise mode (“Turtle”) for accurate assembly tasks, and a dynamic mode (“Hare”) for faster movement around the construction site. Switching between modes allows the machine’s operation to be adapted to current needs and conditions.

CHOOSE OPTIONALLY



LED LAMP

A practical LED work light mounted with a magnet provides effective illumination of the crane’s work area in low-visibility conditions.



ADDITIONAL MAINS POWER SUPPLY

Applies to the combustion engine version: additional power supply from a 230 V mains connection (corded operation). Optionally available in 110 V and 400 V as well.



HS SPACERS

The HS spacer system allows adjustment of the suction cups’ distance from the frame, enabling optimal adaptation of the gripping setup to the thickness and shape of the installed elements. This flexible configuration translates into greater precision and ease of use in various working conditions.

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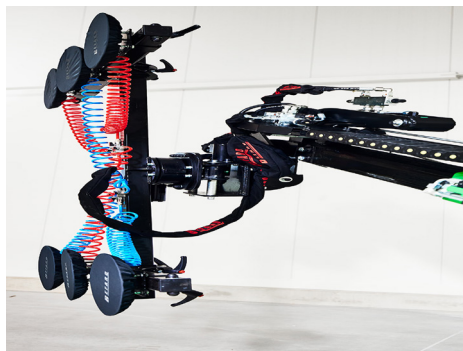
CHOOSE OPTIONALLY

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HOOK

A hook mounted on the suction cup frame enables quick handling of loads without using the suction cups. This is an ideal solution for transporting items that don't require vacuum suction, increasing the machine's versatility and making daily work on the construction site easier.



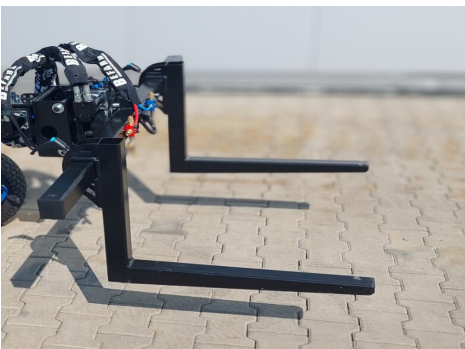
TILTING SUCTION CUP FRAME

The hydraulic tilt system allows the suction cup frame to tilt sideways, significantly easing the installation of glazing in corners, recesses, and hard-to-reach areas. Smooth adjustment ensures precise positioning and greater flexibility during work.



OVERLOAD PROTECTION SYSTEM

The integrated overload protection system safeguards the machine and operator from exceeding allowable working parameters. It automatically detects excessive loads and limits functions to ensure maximum safety.



FORKS

After quick removal of the suction cups, forks can be mounted on the same frame, allowing the device to be used for transporting pallets and other loads. This practical and cost-effective solution increases the equipment's versatility on the construction site.

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COMFORT AND ECOLOGY

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BEFARD electric machines offer not only ecological benefits but also the highest level of work comfort. Eliminating the combustion engine minimizes noise and vibration from the machine.

This solution allows for hassle-free operation in European city centers where Low Emission Zone regulations apply (e.g., London, Paris, and Berlin).

BUILT-IN 230V CHARGER INCLUDED AS STANDARD

ABILITY TO OPERATE WHILE CHARGING VIA CABLE

- Fully battery-powered (Li-ion)
- Bio-oil optionally available for the combustion engine version



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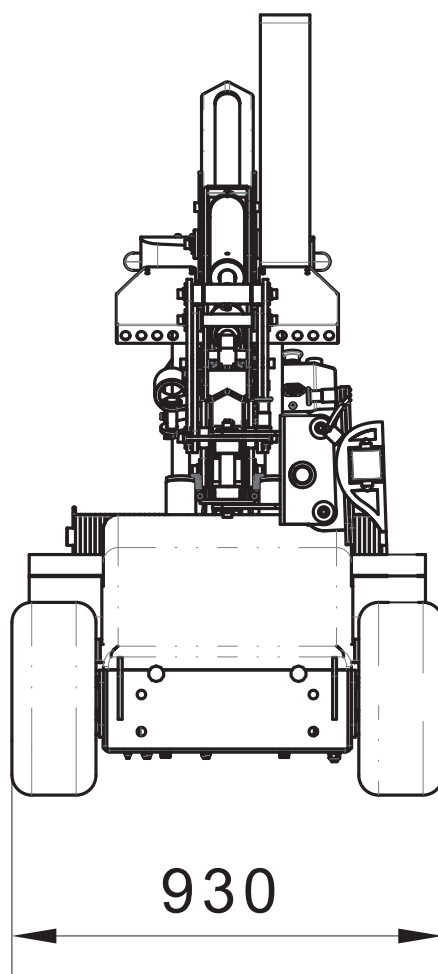
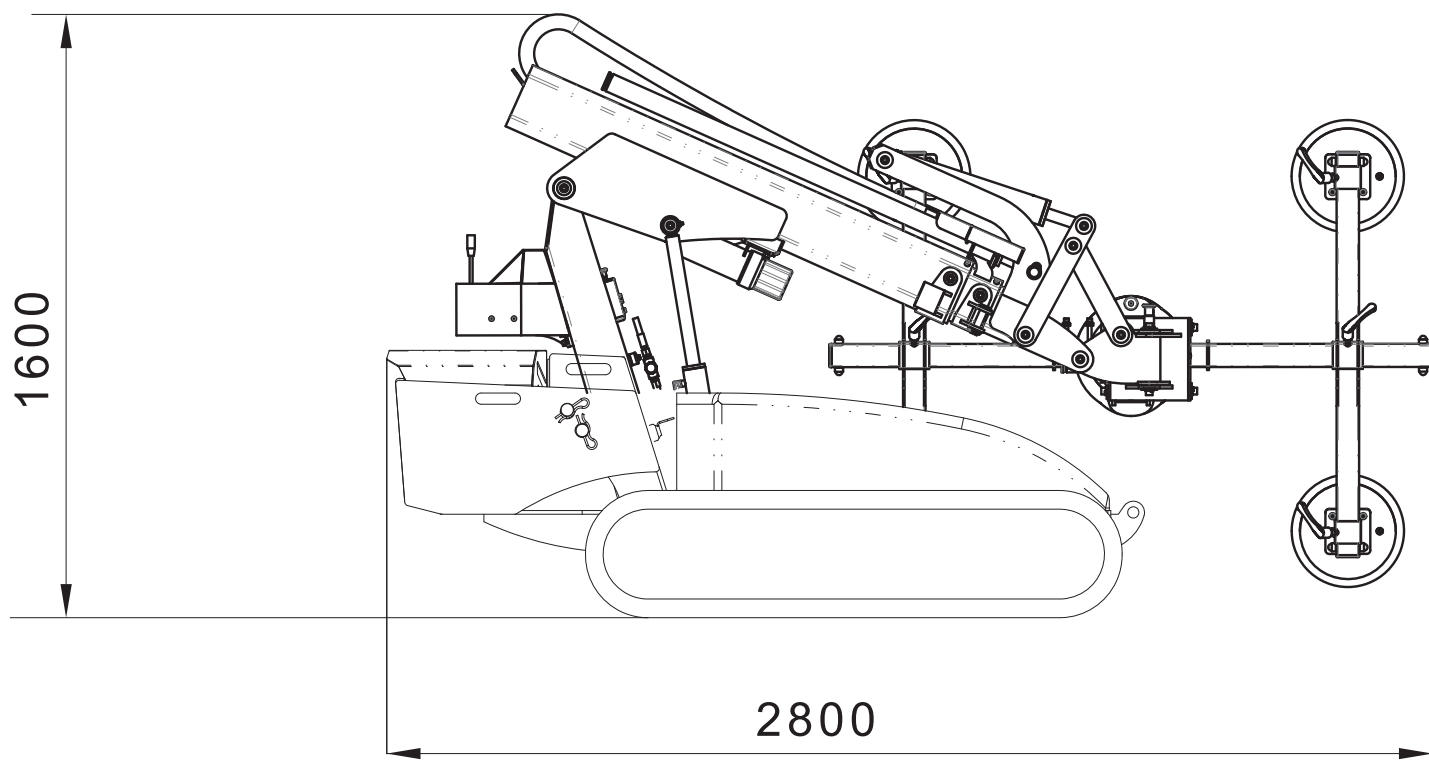
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TECHNICAL SPECIFICATIONS

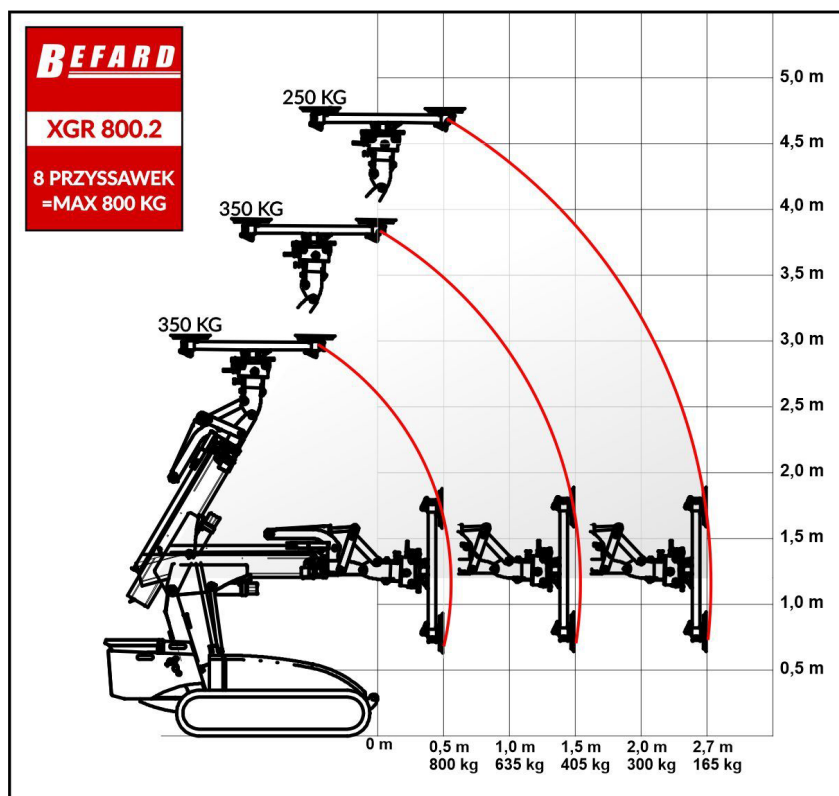
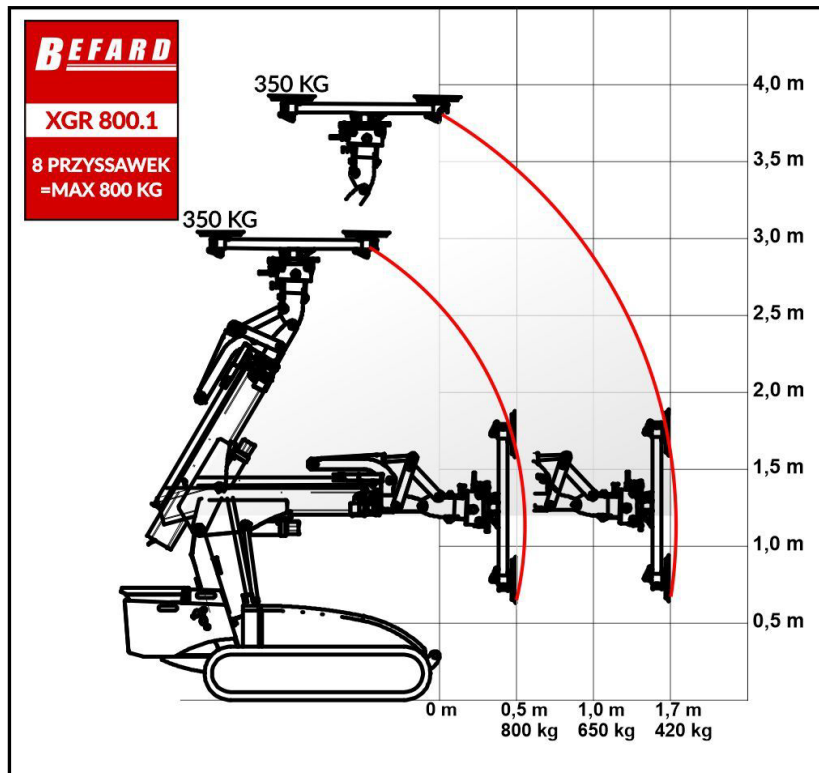
Max. lifting capacity	800 kg
Hydraulic extensions	1 / 2 / 3 (depending on the option selected)
Transport length of the machine	2,38 m
Transport height of the machine	1,6 m
Transport width of the machine	0,93 m
Max. horizontal reach	3,7 m
Max. vertical reach	5,5 m
Number of suction cups	8
Hydraulically operated rotating suction cup frame	remote-controlled
Hydraulically controlled lateral shift of the suction cup frame	right/left - 10 cm
Radio remote control	work and drive
Machine weight	XGR800.1 - 1250 kg
	XGR800.2 - 1350 kg
	XGR800.3 - 1450 kg
Power supply	combustion engine, combustion engine with electric motor (230V, 400V or 110V), or Li-ion battery powered

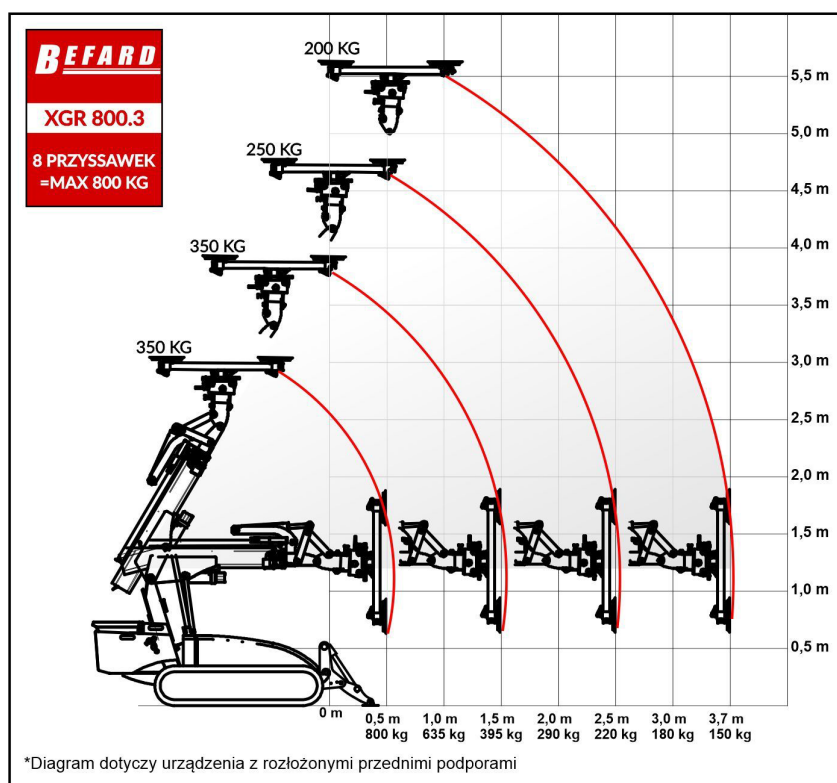
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TRANSPORT DIMENSIONS

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BEFARD XGR800 IN ACTION

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