

PRODUCT SPECIFICATION

WSR-500OR

Off-Road Glass Installation Robot

WSR-500OR is an Easytech off-road glass installation robot. Maximum rated load: 500 kg; Travel motor power: 2.2 kW; Pad configuration: Ø290 mm × 6; Arm extension / outreach: 600 mm; Tilting: 0-180°.



Series reference image.

Drive: Battery / electrohydraulic

Mounting: Self-propelled

Materials: Glass

Configuration, complete technical data and selection guidance

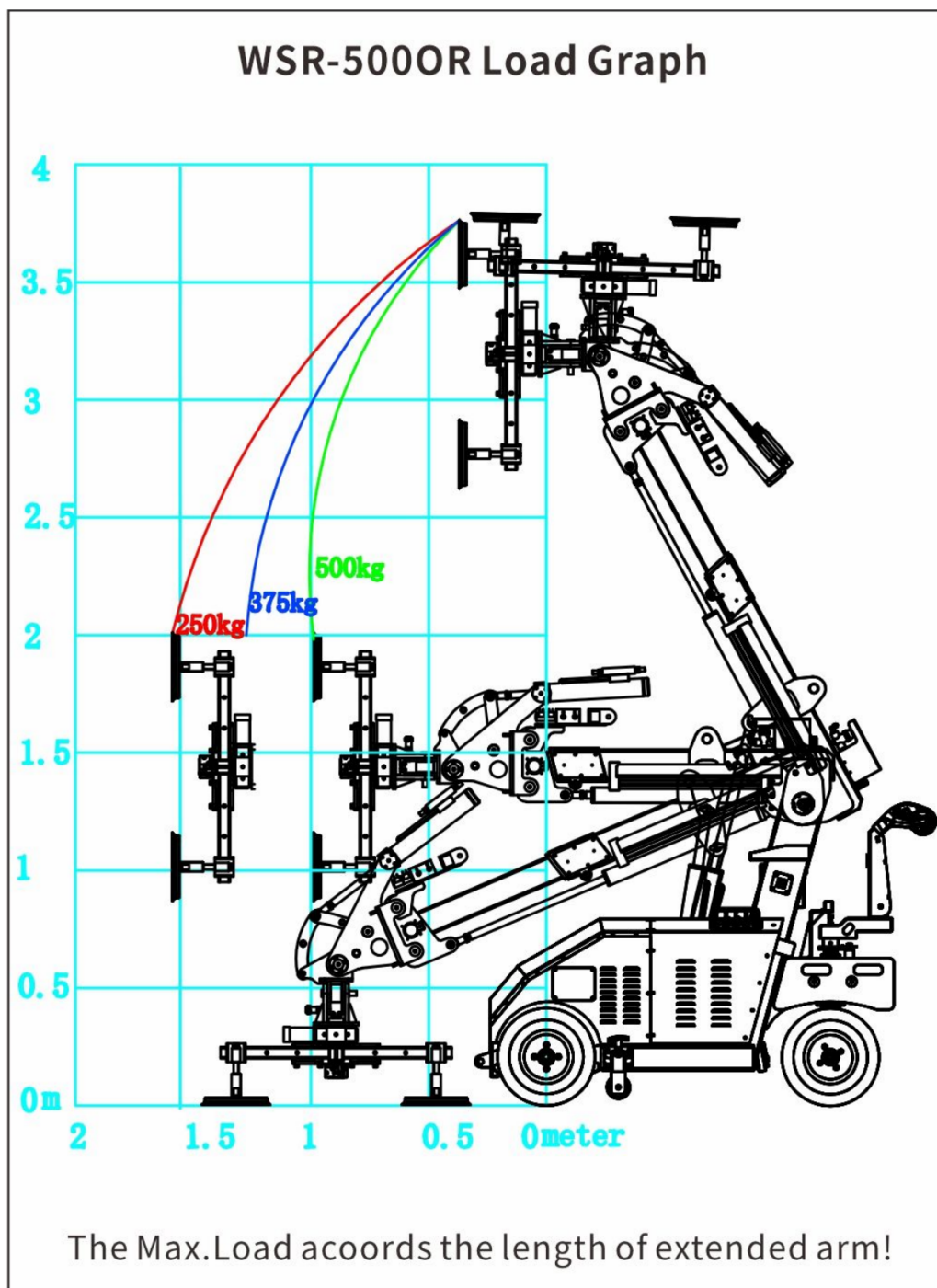
Read the specified load and movement with their conditions. This document supports purchasing and project definition; the supplied equipment instructions govern operation and maintenance.

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Technical specifications

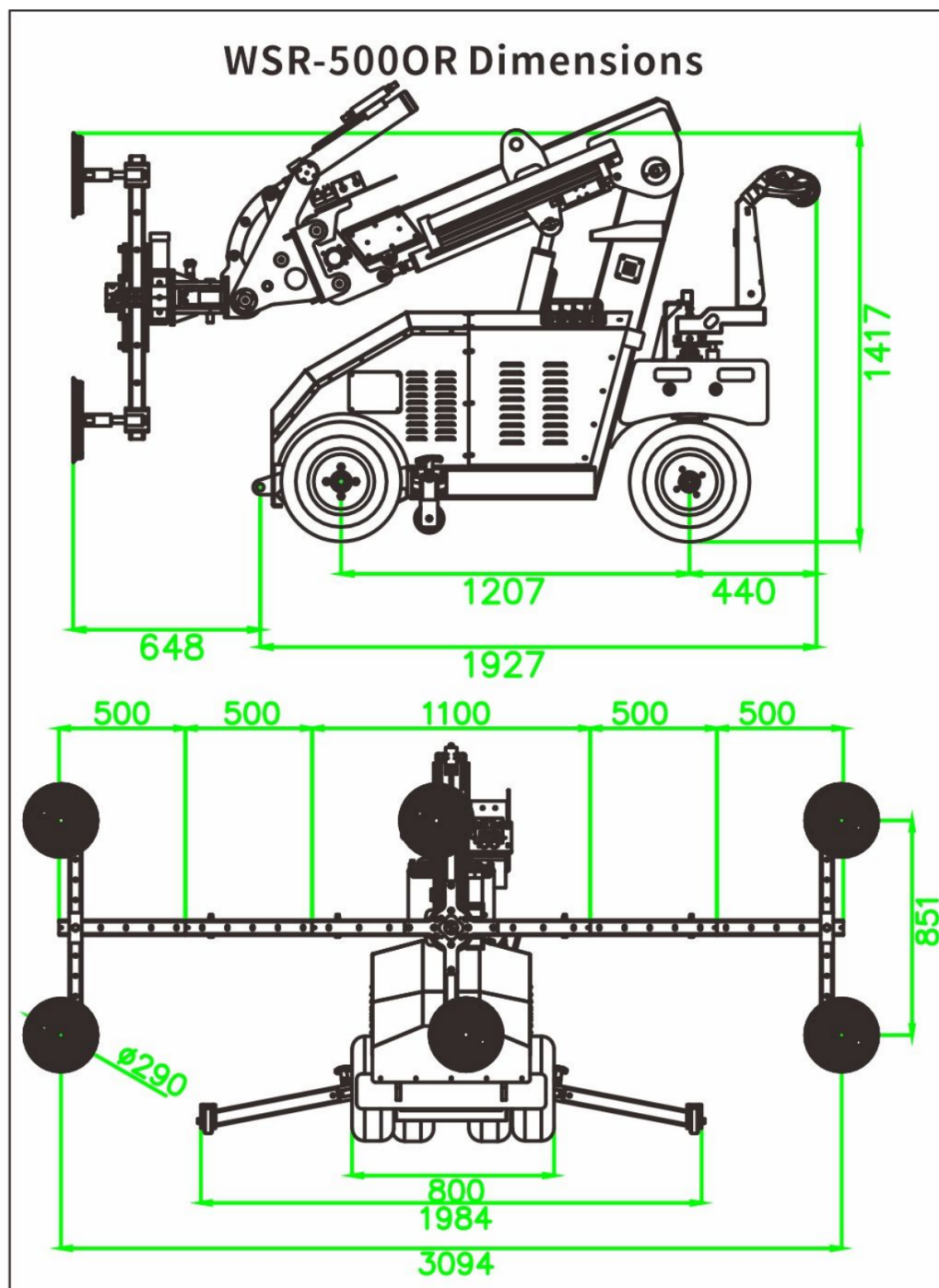
Parameter	Specification
Maximum rated load	500 kg
Maximum lifting height	3500; 5000 optional mm
Travel drive	24 V front-wheel motor
Travel motor power	2.2 kW
Gradeability	20%
Pad configuration	Ø290 mm × 6
Vacuum system	Twin pumps, dual circuits
Alarm	Audible and visual alarm
Arm extension / outreach	600 mm
Tilting	0-180°
Rotation	360° continuous rotation
Side shift	±50 mm
Side turning	90° to each side
Battery	DC12 V / 100 Ah × 2
Charging input	AC220 V / 110-240 V; confirm the supplied charger input
Operating time	6-8 h; actual duration depends on the duty cycle
Minimum overall dimensions	2575 × 800 × 1417 mm
Equipment weight	1136 kg
Load limitations	Varies with outreach and posture; use the load chart. Maximum height is not the full-load height.
Remote control	Wired remote control
Powered positioning functions	Lifting, extension, rotation, tilting and side shift
Side-turn drive	Manual

Technical drawing / working envelope



WSR-500OR load envelope. Axes are in metres; curve labels are allowable loads in kg for the illustrated configuration. Maximum height and maximum load are not simultaneous ratings.

Technical drawing / working envelope



WSR-500OR dimensional arrangement, mm. Dimensions refer to the illustrated folded or working posture, not necessarily the minimum transport envelope.

Access route and configuration-specific working position

The maximum load and maximum lifting height are separate limits. First check access and setup with the pane and attachment, then locate the required installation position on the matching load chart. Control type and powered versus manual positioning differ across the range.

Compare the published configuration

Selection point	WSR-500OR - Off-Road Glass Installation Robot	WSR-600XR - Off-Road Glass Installation Robot	WSR-400MINI - Wheeled Glass Installation Robot
Maximum rated load	500 kg	600 kg	400 kg
Maximum lifting height	3500; 5000 optional mm	5000 mm	3200 mm
Minimum overall dimensions	2575 × 800 × 1417 mm	3147 × 800 × 1517 mm	1298 × 730 × 1852 mm
Equipment weight	1136 kg	1686.5 kg	815 kg
Pad configuration	Ø290 mm × 6	Ø290 mm × 6	Ø290 mm × 4

Equipment and intended application

The mobile chassis carries the lifting arm and vacuum head. Travel positions the machine; arm movement provides reach and height; the head aligns the glass using the listed tilt, rotation and fine-positioning functions. Each movement has its own limit, and the load envelope changes with reach and posture.

Workpiece suitability and limits

Topic	Details
Access to the work area	Compare the transport envelope with doors, lifts, corridors and turning spaces. Check machine mass plus the transported load against the floor and access route; width alone does not establish access.
Placement geometry	Specify glass weight and size, final installation height, horizontal setback and any overhead obstruction. Maximum height and maximum load are separate values and must not be combined as a single operating point.
Ground and weather	Check surface strength, slope, obstacles and the support arrangement. Gradeability is a travel specification, not permission to lift on that slope. Outdoor work also requires suitable glass, weather and site conditions.

Configuration and supply boundaries

Topic	Details
Chassis and battery	The model table defines the travel drive, battery and minimum dimensions where stated. Listed operating time is duty-dependent and is not a guarantee for every lift cycle.
Vacuum head	Pad arrangement and vacuum circuits apply to the stated head. A fork or winch option uses a different load path and requires its own attachment instructions.
Positioning controls	Side shift translates the head; side turning swivels it; rotation turns the pane in its plane. These functions must not be conflated when checking access around an opening.
Counterweights and supports	Use the specified counterweight and support arrangement. Removing weights to reduce transport mass changes the working configuration; it does not preserve the same lifting envelope.

Installation and commissioning

- Survey access and placement before delivery: door and lift dimensions, floor loading, turns, unloading space and the installation setback.
- Prepare a suitable charging point using the supplied charger input. Check battery condition and the planned duty cycle before a shift.
- Inspect the fitted pads, vacuum hoses, hydraulic lines, tyres or tracks, counterweights, support devices and emergency stop. Check both circuits when a dual system is fitted.
- Commission controls and travel without a load, then carry out the prescribed checks for the selected glass and working posture. The operator needs the machine-specific operating instructions and load envelope.

Handling sequence

1. Prepare the work area and set the machine to its approved lifting configuration. Keep the pickup and destination accessible for a safe set-down.
2. Position the head on intact glass contact areas, apply vacuum and check the circuit indications before taking the glass weight.
3. Use the load diagram for the selected reach and height. Make controlled travel and positioning movements; use fine adjustment to align the glass without forcing it against the opening.
4. Transfer the pane onto its supports and secure it by the installation procedure before releasing the vacuum. Return the machine to its transport posture before relocating it.

Inspection, maintenance and replacement parts

Topic	Details
Before use	Inspect pads, hoses, vacuum indications, controls, tyres/tracks and the support arrangement. Investigate any alarm or change in movement.
Hydraulic system	Check for leaks and damaged hoses without touching pressurised leaks. Support moving parts and isolate energy before maintenance.
Battery and charging	Keep terminals and charging leads in serviceable condition and follow the fitted battery/charger instructions. Report declining runtime instead of assuming the catalog duration still applies.
Service identification	Record the model and serial number, attachment type, battery specification and affected component. Pad, hydraulic-seal and controller replacements must match the actual installed version.

Troubleshooting priorities

Topic	Details
Arm movement is inhibited	Check overload indication, emergency stop, power and the permitted posture. Do not bypass an interlock to reach the target position.
One vacuum circuit warns	Set the pane down using the prescribed safe procedure and find the cause. A second circuit does not authorise normal operation with a known fault.
Travel or positioning becomes irregular	Stop in a supported state and inspect the route, charge level, controls and hydraulic system. Resume only after the cause is resolved.

Frequently asked questions

What load should I use when selecting WSR-500OR?

WSR-500OR lists a maximum rated load of 500 kg. The permissible load at the required height and outreach comes from the matching configuration load chart. Maximum height is not the full-load height.

Can it lift its maximum rated load to maximum height?

Only if the model load chart explicitly permits that combination. Select the curve for the actual load and check the complete reach/height path, not just the final point.

What is the difference between side shift and rotation?

Side shift moves the pane laterally without changing its angle; rotation turns it within its plane. Side turning changes the head direction relative to the arm.

Can a narrow machine automatically use a passenger lift?

No. Check the whole transport envelope, turning space, total transported mass and lift loading restrictions. The narrowest chassis width is only one of those checks.

Information for application assessment

- Identify the workpiece material, dimensions, mass, contact surface and centre of gravity. Include the least favourable item in a mixed production range.
- Describe pickup and placement positions, required orientation changes, handling frequency and the site layout.
- Identify the available power or air supply and any host machine, crane, support structure or interface that must be retained.
- State the destination market and required documentation, accessories and packing constraints so the proposed configuration can be assessed as a complete system.

Document scope

This product specification supports equipment selection and project definition. It includes the model data and application guidance presented on the product page. The operating instructions supplied for the actual machine govern commissioning, testing, maintenance procedures and safe use; this specification does not replace them.

Contact Easytech

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