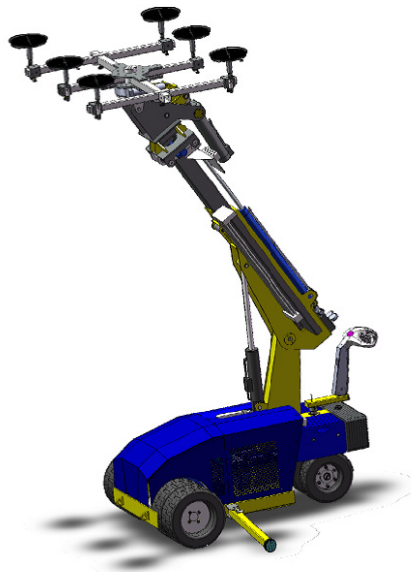


PRODUCT SPECIFICATION

ET-GR-LEG-800S

Wheeled Glass Lifting Robot

ET-GR-LEG-800S is an Easytech wheeled glass lifting robot. Maximum load with arm retracted: 800 kg; Maximum load at full extension: 500 kg; Maximum lifting height at pad frame center: 3800 mm; Telescopic stroke: 800 mm; Maximum horizontal distance from front wheel edge to pads: 1630 mm.



Series reference image.

Drive: Configuration-specific

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 load with arm retracted	800 kg
Maximum load at full extension	500 kg
Maximum lifting height at pad frame center	3800 mm
Telescopic stroke	800 mm
Maximum horizontal distance from front wheel edge to pads	1630 mm
Tilting	Approximately 130°, hydraulic
Rotation	Hydraulic 180°, 90° to each side
Side shift	75 mm to each side, 150 mm total
Side turning	Hydraulic, approximately 22.5° to each side
Weight including counterweights	1250 kg
Weight excluding counterweights	850 kg
Operating power supply	DC 24 V
Drive power	2.2 kW
Hydraulic power unit power	1.2 kW
Battery	12 V / 150 Ah × 2
Stated maximum operating time	Approximately 20 h; actual duration depends on the duty cycle
Charging input	110-220 V
Charging time	Approximately 5 h
Vacuum system	Twin pumps, dual circuits
Number of pads	6 pcs
Pad diameter	400 mm
Vacuum pump model	CV-35,DC24V
Maximum flow per pump	35 L/min
Maximum vacuum gauge pressure	-85 kPa
Vacuum pump start / stop thresholds	-60 / -70 kPa
Vacuum alarm	Audible and visual alarm below the stated 60% vacuum level; this percentage is not a load percentage
Overload protection	Extension and lifting are restricted after overload detection
Vacuum retention	Independent air reservoir and non-return valve
Minimum overall dimensions	2200 × 920 × 1700 mm

Parameter	Specification
Front wheel specifications	450 × 200 mm × 2, solid PU-filled wheels
Rear wheel specifications	400 mm twin solid wheels
Optional remote control	Wireless proportional remote control; stated range 30 m

Wheeled installation geometry

The retracted and fully extended loads differ. Compare the pane position and pad-frame height, then check transport dimensions and counterweight state. A larger retracted rating does not establish the required load at full extension.

Compare the published configuration

Selection point	ET-GR-LEG-800S - Wheeled Glass Lifting Robot	ET-GR-LEG-600 - Glass Installation Robot
Maximum load with arm retracted	800 kg	600 kg
Maximum load at full extension	500 kg	400 kg
Maximum lifting height at pad frame center	3800 mm	3200 mm
Maximum horizontal distance from front wheel edge to pads	1630 mm	1310 mm
Weight including counterweights	1250 kg	1350 kg

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.

Load and arm position

The documented maximum is 800 kg with the arm retracted and 500 kg at full extension. These are different arm positions. Use the applicable load envelope throughout the move; the 800 kg figure is not a full-extension rating.

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

How should I interpret the load figures for ET-GR-LEG-800S?

The documented maximum is 800 kg with the arm retracted and 500 kg at full extension. These are different arm positions. Use the applicable load envelope throughout the move; the 800 kg figure is not a full-extension rating.

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.

Product views and application references



Series reference image.

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