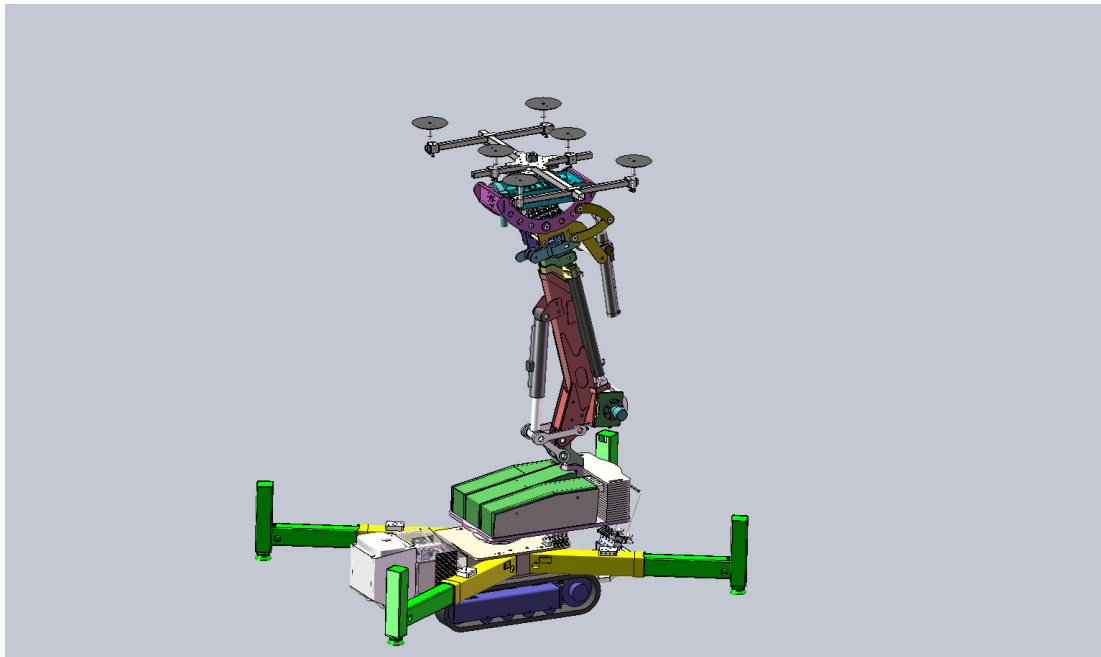


PRODUCT SPECIFICATION

ET-GR-LEG-ST800

Tracked Glass Lifting Robot

ET-GR-LEG-ST800 is an Easytech tracked glass lifting robot. Rated load (kg): 800KG; End load (kg): 600KG; Overall dimensions: L3537×W800×H1950mm; Wide-input battery charger: AC110V-220V 50-60HZ; Battery specifications: DC24-(2*12V/55AH).



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
Rated load (kg)	800KG
End load (kg)	600KG
Travel speed, high gear (km/h)	1.8KM/H
Travel speed, climbing gear (km/h)	0.9KM/H
Gradeability	20°
Overall dimensions	L3537×W800×H1950mm
Arm length	4833mm
Arm height	6800mm
Engine (HP)	13.23KW 18HP
Wide-input battery charger	AC110V-220V 50-60HZ
Battery specifications	DC24-(2*12V/55AH)
Drive type	Track drive
Track drive control	Mechanical joystick / wireless control
Track material	Nitrile rubber (NBR)
Track ground pressure (kg/cm2)	0.55kg/ cm2
Control power supply (V / Hz)	DC24V
Operating environment	-20 to +40 °C
Humidity	60%
Charger supply (V / Hz)	AC110-220V, 50HZ/60HZ
IP rating	IP65
Hydraulic operating pressure	21MPa
Overload protection	Included
Load display	Included
Support legs, vertical travel / control	Hydraulic cylinder; onboard buttons / mechanical joystick
Support legs, horizontal travel / control	Hydraulic cylinder; onboard buttons / mechanical joystick
Support leg angle / control	30°; manual
Load per support leg	3900kg
Arm slewing angle / control	360° / 1.5 U/min; wireless proportional remote control
Arm luffing angle / control	85°; wireless proportional remote control
Arm extension / control	4833 mm; wireless proportional remote control

Parameter	Specification
Hydraulic winch / control	Rope length 36 m; speed 0-12 m/min; load 1.5 t; rope diameter 9.5 mm; wireless proportional remote control
Pad frame tilting / control	Hydraulic cylinder, 130°; wireless proportional remote control
Pad frame side turning / control	Hydraulic motor and rotator, $\pm 15^\circ$; wireless proportional remote control
Pad frame horizontal side shift / control	Hydraulic cylinder, ± 50 mm; wireless proportional remote control
Pad frame rotation / control	360° continuous rotation; wireless proportional remote control
Pad frame vertical travel / control	Hydraulic cylinder, ± 100 mm; wireless proportional remote control
Number of pads	8 pads
Vacuum circuits	2 circuits
Vacuum pump	DC24 V, 2 units
Vacuum signal	Pressure sensor
Vacuum alarm	Three-color indicator and buzzer
Vacuum grip / release control	Solenoid valve grip / release or manual grip / release
Pressure display	Digital and analog gauge displays
Industrial control	Programmable logic controller (PLC)
Control method	Wireless proportional controller
Hydraulic control	Proportional valve
Speed control	Analog signal
Counterweight blocks	500 kg
Suspension at arm end	1 unit (additional item)
Braking method	Hydraulic locking
Pad frame load capacity	800kg
Equipment weight excluding counterweights	Approximately 2500 kg

Tracked-machine envelope and setup

Read payload, attachment load, equipment weight and counterweight as separate quantities. The working load chart and installed attachment determine the permitted operating position; maximum reach and maximum capacity are not one simultaneous capability.

Compare the published configuration

Selection point	ET-GR-LEG-ST800 - Tracked Glass Lifting Robot	ET-GR-LEG-ST1500 - Tracked Glass Lifting Robot
Rated load (kg)	800KG	1500KG
Equipment weight excluding counterweights	Approximately 2500 kg	-
Crawler maximum loading(arm back)	-	1500KG
Crawler maximum loading(full extended)	-	400KG
Rated suction force	-	800kg

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.

Reading the different load entries

The specification lists an 800 kg rated load, an 800 kg pad-frame capacity and a separate 600 kg end-load entry. These entries do not establish 800 kg capacity at every boom position. Use the applicable working envelope and installed head configuration for the planned movement. Equipment mass is approximately 2500 kg excluding the separate 500 kg counterweight.

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-ST800?

The specification lists an 800 kg rated load, an 800 kg pad-frame capacity and a separate 600 kg end-load entry. These entries do not establish 800 kg capacity at every boom position. Use the applicable working envelope and installed head configuration for the planned movement. Equipment mass is approximately 2500 kg excluding the separate 500 kg counterweight.

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.

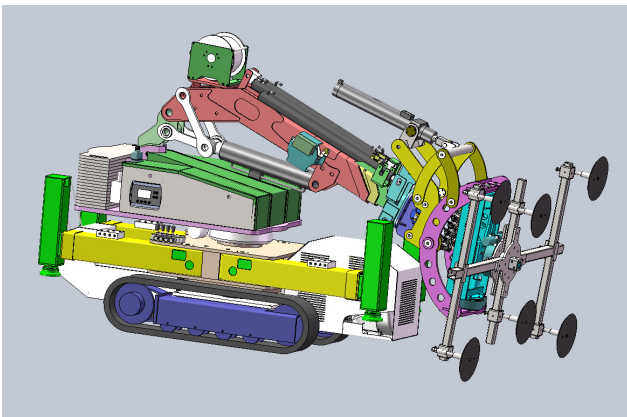
Information for application assessment

- 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.

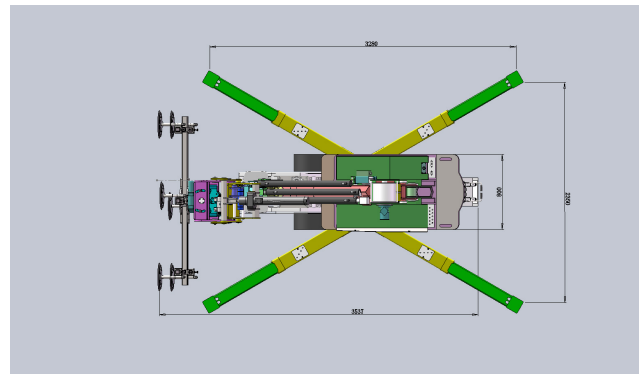
Document scope

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.



Series reference image.

Contact Easytech

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