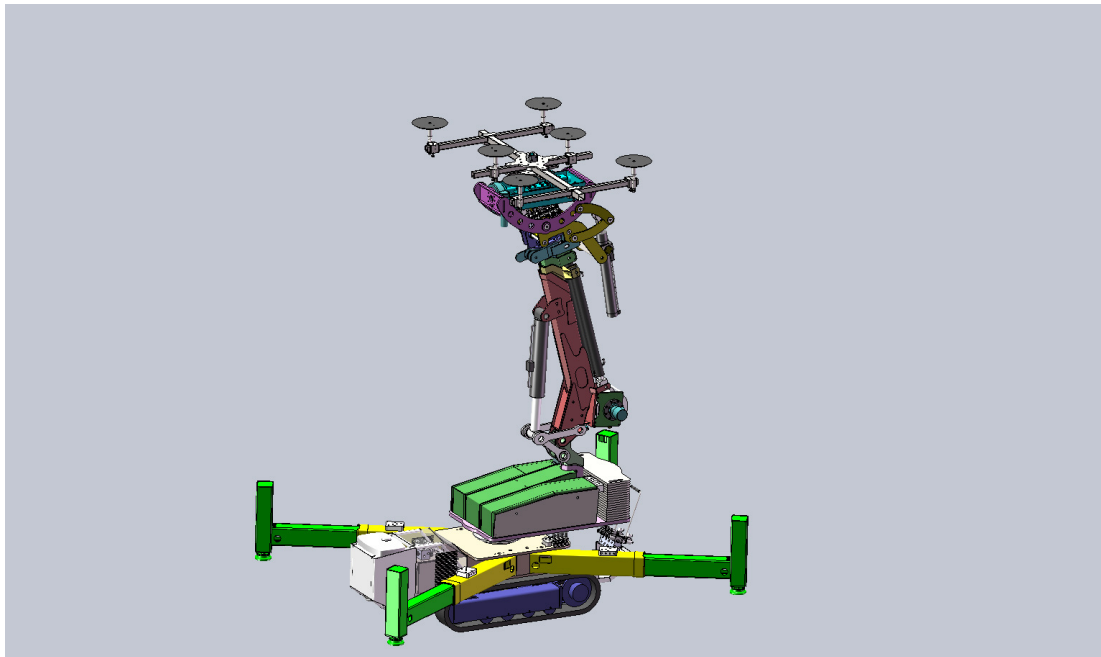


PRODUCT SPECIFICATION

ET-GR-LEG-ST1500

Tracked Glass Lifting Robot

ET-GR-LEG-ST1500 is an Easytech tracked glass lifting robot. Rated load (kg): 1500KG; Crawler maximum loading (arm back): 1500KG; Crawler maximum loading (full extended): 400KG; Maximum climbing (without loads): 20°; Dimensions: L3537×W800×H1950mm.



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.

Jenny Zhan | Phone / WhatsApp: +86 135-3727-1735

Technical specifications

Parameter	Specification
Rated load (kg)	1500KG
Crawler maximum loading(arm back)	1500KG
Crawler maximum loading(full extended)	400KG
Self weight (KG)	About 3980KG
Driving speed(normal road)	1.8KM/H
Driving speed (for climbing)	0.9KM/H
Maximum climbing (without loads)	20°
Dimensions	L3537×W800×H1950mm
Maximum extension length(parallel)	4833mm
Maximum lifting height	6800mm
Gas engine (HP)	13.23KW 18HP
Battery charger	AC110V-220V 50-60HZ
Battery volume	DC24-(2*12V/55AH)
Driven by	Hydraulic motor with crawler
Driving controlled by	Mechanism roller & wireless remote control
Crawler materials	NBR
Maximum crawler endurance (kg/cm2)	0.55kg/ cm2
Control power supply(V HZ)	DC24V
Working temperature	-20 to +40 °C
Working humidity	60%
Charger input(V)HZ	AC110-220V, 50HZ/60HZ
IP grade	IP65
Hydraulic pressure	21MPa
Overload protection	Automatic warning with sensor detection
Overload display	Available in screen
Fall-protected leg in vertical moving	by hydraulic cylinder
Leg vertical moving control	by Button& mechanism roller
Fall-protected leg in extension	by hydraulic cylinder
Leg extension moving control	by Button& mechanism roller
Legs included angle	30°

Parameter	Specification
Moving	Manually
Unit leg embrace force	3900kg
Loading arm rotation degree	360°/1.5U/min
Loading arm rotation degree - control method	Wireless remote control with sensible speed adjustment
Maximum loading arm erect degree	85°
Maximum loading arm erect degree - control method	Wireless remote control with sensible speed adjustment
Maximum extension distance	4.833M
Maximum extension distance - control method	Wireless remote control with sensible speed adjustment
Hydraulic winch	Rope length:36M, speed:0-12M/min, loading capacity:1.5T, rope diameter:9.5mm
Hydraulic winch - control method	Wireless remote control with sensible speed adjustment
Glass tilted by	Hydraulic cylinder, maximum degree 130°
Glass tilted by - control method	Wireless remote control with sensible speed adjustment
Glass side turning	Hydraulic motor with reducer, turning degree $\pm 15^\circ$
Glass side turning - control method	Wireless remote control with sensible speed adjustment
Glass side moving	By hydraulic cylinder, maximum moving distance $\pm 75\text{mm}$
Glass side moving - control method	Wireless remote control with sensible speed adjustment
Glass rotation	360°endless rotation
Glass rotation - control method	Wireless remote control with sensible speed adjustment
Up&down vertical moving	By hydraulic cylinder, maximum moving distance 100mm
Up&down vertical moving - control method	Wireless remote control with sensible speed adjustment
Loading arm rotate by	Hydraulic motor with swing bearing
Extension cylinder number	3 pieces
Hydraulic pump station power	DC24V, 2.2KW
Hydraulic pump flow	1.1L/M
Maximum remote control range	30M
Suction Cups	Eight
Vacuum cycle	Two circles
Vacuum pump	2 sets
Vacuum pump power	DC 24, 60W,
Low pressure detected by	Vacuum switch sensor

Parameter	Specification
Vacuum Alert	3-Color with acoustic
Vacuum switched by	Manual&button
Pressure display	Digital display with screen
Main controlled by	Reprogrammable PLC
Hydraulic speed control	Precision proportional valve
Speed control communication	Analog input
Counterweight	500kg
Winch hook	1 unit (additional item)
Brake by	Self-lock by hydraulic balance valve
Rated suction force	800kg

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-ST1500 - Tracked Glass Lifting Robot	ET-GR-LEG-ST800 - Tracked Glass Lifting Robot
Rated load (kg)	1500KG	800KG
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.

Crawler capacity and vacuum-head capacity

The crawler is listed at 1500 kg with the arm retracted and 400 kg at full extension. The vacuum head has a separate 800 kg rated suction-force entry. The 1500 kg crawler figure is not a 1500 kg vacuum-head rating; the selected attachment limit and boom-position limit both apply. Do not plan a vacuum lift using the crawler headline alone.

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-ST1500?

The crawler is listed at 1500 kg with the arm retracted and 400 kg at full extension. The vacuum head has a separate 800 kg rated suction-force entry. The 1500 kg crawler figure is not a 1500 kg vacuum-head rating: the selected attachment limit and boom-position limit both apply. Do not plan a vacuum lift using the crawler headline alone.

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.

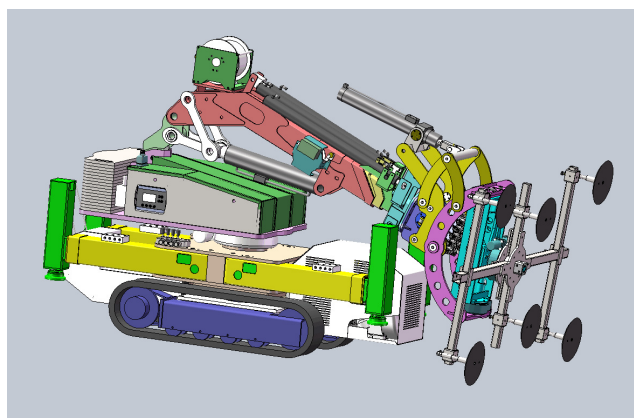
Information for application assessment

- 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.

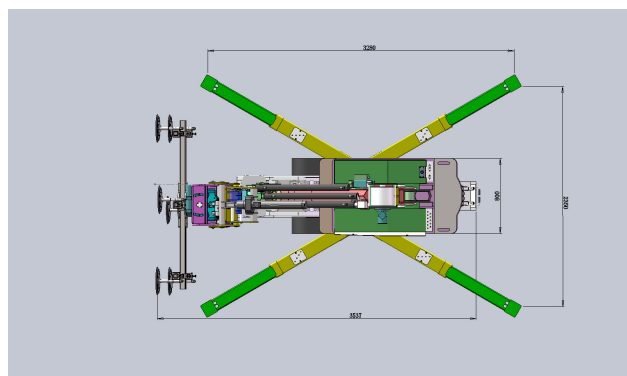
Document scope

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

Dongguan Easytech Automation Mechanical and Electrical Equipment Co., Ltd.

Room 403, No. 212, Zhongxing Road, Dalingshan, Dalingshan Town, Dongguan City

Jenny Zhan | Phone / WhatsApp: +86 135-3727-1735

Email: jennyzhan@auto-easy.com | WeChat: easytech1

<https://www.auto-easy.com/>