

PRODUCT SPECIFICATION

ET-PV-150

Mobile Paving Manipulator

ET-PV-150 is an Easytech mobile paving manipulator. Rated load: 150 kg; Maximum handling load: 150 kg; Maximum pallet fork load: 600 kg; Unloaded gradeability: 15%; Minimum overall dimensions: 2650 × 1500 × 1820 mm.



Series reference image.

Drive: Battery / electrohydraulic

Mounting: Self-propelled

Materials: Pavers, Stone

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	150 kg
Maximum handling load	150 kg
Maximum pallet fork load	600 kg
Equipment weight	1280 kg
Travel control	Remote-controlled powered travel
Travel speed on level ground	5 km/h
Unloaded gradeability	15%
Minimum overall dimensions	2650 × 1500 × 1820 mm
Maximum arm length	2500 mm
Maximum lifting height	1700 mm
Charging input	AC110-220 V / 50-60 Hz
Battery	24 V system, 12 V / 155 Ah × 2
Travel drive	AC24 V motor, gearbox and axle
Travel motor power	2.2 kW
Operating temperature	-20 to +40 °C
Operating humidity	60%; application conditions to be agreed
IP rating	IP55
Hydraulic operating pressure	21 MPa
Overload protection	Sensor detection with audible and visual alarm
Support legs	4 legs, automatic hydraulic extension
Support force per leg	1200 kg
Lifting stroke	500 mm
Hydraulic power unit	DC24 V / 1.2 kW
Hydraulic pump flow	1.1 L/min
Oil tank volume	8 L
End effector	Customized for the workpiece
Main control	Programmable PLC
Hydraulic speed communication	Analog signal
Counterweight	150 kg
Braking	Hydraulic counterbalance valve locking
Product application	Mobile paving manipulator; fork mode is separate from end-effector mode

Paving placement and pallet handling

Use 150 kg for the handling mode and 600 kg only for the separately specified pallet-fork mode. The unloaded gradeability does not authorize loaded travel or lifting on the same slope. Review the selected end effector, support footprint and ground conditions.

Selection point	This configuration
Rated load	150 kg
Maximum pallet fork load	600 kg
Equipment weight	1280 kg
Minimum overall dimensions	2650 × 1500 × 1820 mm
Maximum arm length	2500 mm

Equipment and intended application

Stone and paving products range from suspended pad frames to rough-surface foam heads and a powered paving manipulator. Selection depends on stone mass, rigidity, surface leakage and the required placement method. The exact product configuration below determines whether it lifts horizontally, tilts or positions a paving element.

Handling and pallet-fork modes

The adopted handling capacity is 150 kg. The separately listed 600 kg pallet-fork figure applies to the fork mode; it does not increase the handling-head rating. Select the mode, support arrangement and load position together.

Application and integration requirements

Topic	Details
Surface and porosity	Polished stone, textured stone and porous blocks behave differently under vacuum. Test the actual surface, including dust, moisture and any coating, rather than relying on material name.
Slab integrity	Check thickness, unsupported span, cracks and cut-outs. A grip that holds securely can still damage a weak slab if support positions are unsuitable.
Placement task	Record the pickup height, destination height, required tilt and access width. For the paving manipulator, keep the end-effector rating separate from pallet-fork mode.

Installation, inspection and service checks

Topic	Details
Before a lift	Check the seal or foam condition, contact cleanliness, pad coverage and the integrity of the stone.
During handling	Maintain the approved orientation and keep the load clear of personnel and obstacles; do not pull a slab free by side-loading a pad.
Service focus	Dust loading, seal wear and leaks require attention. Isolate the equipment before opening filters or replacing seals.

Troubleshooting priorities

Topic	Details
Unexpected grip, motion or control behaviour	Stop with the workpiece supported. Inspect the affected connection, contact area and power or air supply, then follow the installed equipment instructions before returning to service.
Replacement does not fit or changes performance	Check the component identity and system configuration. Do not modify interfaces or bypass protective functions to make a substitute fit.

Frequently asked questions

How should I interpret the load figures for ET-PV-150?

The adopted handling capacity is 150 kg. The separately listed 600 kg pallet-fork figure applies to the fork mode; it does not increase the handling-head rating. Select the mode, support arrangement and load position together.

What determines compatibility?

Polished stone, textured stone and porous blocks behave differently under vacuum. Test the actual surface, including dust, moisture and any coating, rather than relying on material name.

What needs checking beyond the listed size or load?

Check thickness, unsupported span, cracks and cut-outs. A grip that holds securely can still damage a weak slab if support positions are unsuitable.

What defines the supplied configuration?

The specified model, listed technical arrangement and accepted options define the product. Project drawings, utilities, accessories and installation interfaces must describe the same configuration.

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

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/>