



ULS Robotics Co., Ltd.

Address: No. 8 Jinian Road, Yangpu District, Shanghai

Phone: +86 21 80158675

Email: info@ulsrobotics.com

Website: <https://www.ulsrobotics.com/en/>

Copyright © 2025 ULS Robotics



Follow ULS Robotics account to
learn more information.



PES-U

**Passive Elastic
System Upper Limb**



ULS ROBOTICS

PES-U

Passive Elastic System Upper Limb

The PES-U (Passive Elastic System-UpLimb) is a mechanical energy-storing exoskeleton developed and designed by ULS Robotics. Specifically engineered to deliver mechanical support to users' shoulders and arms, it this upper limb energy-storing exoskeleton is primarily intended for physical labor roles in enterprises. It aims to ease the labor burden on workers engaged in lifting tasks, effectively reducing their load by over 30% while providing robust support to boost production efficiency.



1.

No need to charge

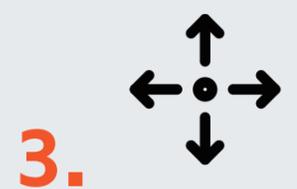
There are no restrictions on the use location and operating time.



2.

Safe Assistance

The mechanical energy storage drive design provides smooth and gentle assistance, with a maximum assistance force of 10 kg.



3.

Posture Diversity

The device has a wide range of movement, including not only up and down, but also left and right tilting, and moves smoothly in other directions.



4.

Lightweight Device

The product is lightweight and made of solid material, weighing only 1.9kg.



5.

Easy to Wear

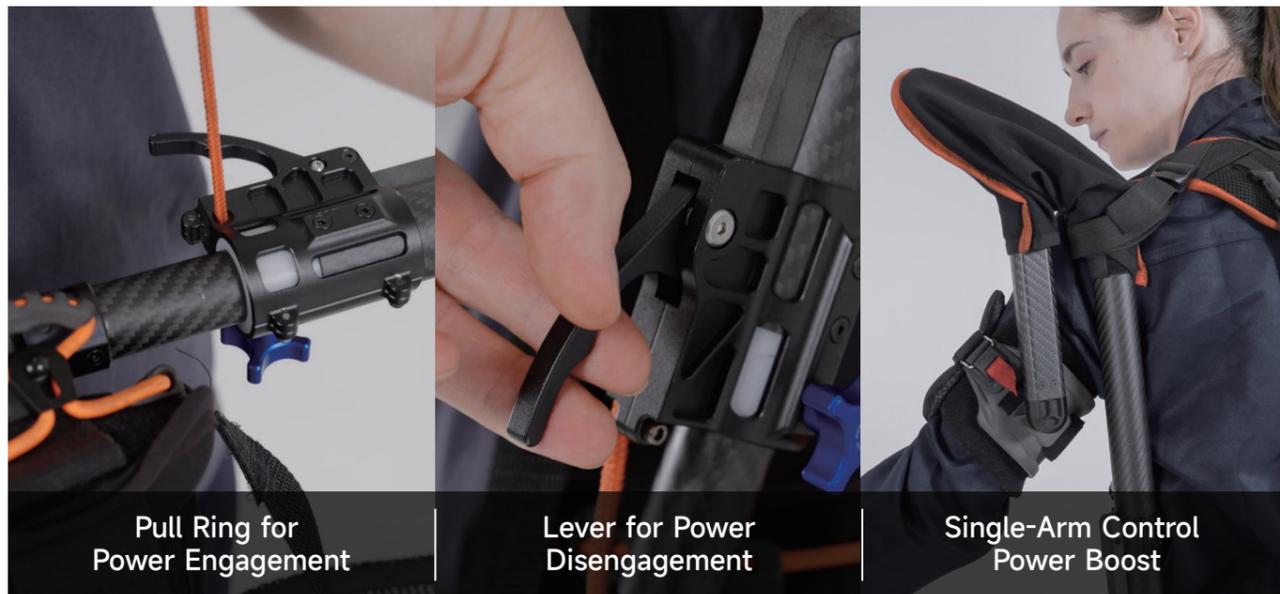
It is comfortable to wear, simple to use, and easily put on within a minute.



6.

Waterproof and Dustproof

It can be used outdoors or in humid weather conditions. The soft bag and other attachments are detachable and can be cleaned.



Pull Ring for Power Engagement

Lever for Power Disengagement

Single-Arm Control Power Boost

APPLICATION INDUSTRIES



Airport Ground Services



Power and Mining



Physical Lifting



Automobile Manufacturing



Follow our X account to learn more information.

SPECIFICATIONS

Device Dimensions 610-690×520×175(mm) (L × W × H)

Suitable Weight Range 40-100kg

Product Weight 1.9kg

Power Source Mechanical Power

Comprehensive Assistance 10kg (MAX)

Service Life >2 million cycles

Degrees of Freedom 8

Materials Nylon Engineering Plastic, Aviation Aluminum Alloy, Carbon Fiber



*The service life data is mainly based on the service life cycles of materials under normal consumption conditions and at room temperature, and is for reference only.