ULS ROBOTICS
PES-B

Passive Elastic Suit-Back

Overview

The Passive Elastic Suit-Back (PES-B) of Aosha Intelligence, with its original S-shaped mechanical architecture, can generate a powerful reactive force effect in real time. Whether it is long-term heavy-load work or frequent bending and stretching actions, the Passive Elastic Suit-Back can precisely disperse the pressure on the waist, effectively relieve muscle fatigue, provide a stable support for you during high-intensity work, significantly reduce the risk of waist strain, and make every operation easy, efficient, safe and worry-free.

【When in a forward-leaning posture】

When in a forward-leaning posture, the lower part of the Passive Elastic Suit-Back (PES-B) will generate a reactive force effect, supporting the waist and assisting with the forward-leaning posture.

【When in a backward-leaning posture】

The lower part of the Passive Elastic Suit-Back (PES-B) generates a reactive force effect against the backward tilt of the upper body. While preventing the arching backward of the lumbar vertebrae, it also supports the backward-leaning posture.

SPECIFICATION

Applicable weight	45~100kg
Applicable height	150~200cm
Product weight	0.8kg
helping effect	≥30%

Posture Guidance Function

The Passive Elastic Suit-Back precisely guides spine and waist, curbs forward lean, eases back/waist stress, and boosts work efficiency.

Muscle Strength Function

From the knees to the waist, there is a muscle strength belt installed with the purpose of assisting the leg muscles. It provides auxiliary force during forward bending postures at work and when standing up, reducing the burden on one's own muscles.

Lumbar Support Function

A wide belt wraps around the spine, abdominal, and back muscles to stabilize and protect the waist. By maintaining proper abdominal pressure, it effectively reduces strain on the waist and spine during work.