Improve work efficiency

Relieve the pressure on the waist

WEIGHT LOSS
30kg

ULS ROBOTICS
FIT-HV

Lumbar exoskeleton robot

Overview

The Flex Interaction Tech lumbar exoskeleton robot integrates the advanced intelligent digital driver, the integrated modular deceleration system and the adaptive intelligent motion control system developed by ULSrobotics, as well as ULSrobotics's unique software mechanical impedance, self-learning adaptive gait, AI-motion control algorithm and pattern recognition. Among them, FIT-HV active electric driven lumbar exoskeleton robot uses high-strength engineering materials, adding hip joint width adjustment mechanismA higher degree of man-machine integration performance will improve the strength and endurance of human waist (hip joint) joints, greatly reduce the workers' labor burden by more than 60%. Enterprises will see enhanced production efficiency, digitalized, visualized data on personnel efficiency and health. Such efforts will also prevent work-related injuries and reduce the hidden losses of staff turnover and retraining.

S P E C I F I C A T I O N S

Equipment dimension	872mm× （500mm-560mm） ×320mm(L * W * H)
Suitable bodyweight	45~110kg
Assisting effect	≥60%
Product weight	≤5.8kg
Power source	Electric assist drive
Auxiliary force	30kg
Ambient temperature	﹣20℃~50℃
Working time	5~8 h
Battery	Lithium battery 36V
Degree of freedom	4
Material	Nylon plastic, aluminum alloy, carbon fiber

ASSIST MODE   BALANCE MODE   WALK MODE