

# StepUp<sup>NEO</sup>

## Experience Human wearing Exoskeleton

Back Assist Exoskeleton  
Passive Type



**FRT** ROBOTICS

# WEAR THE SAFETY

## Industrial Exoskeleton for Muscle Assistance

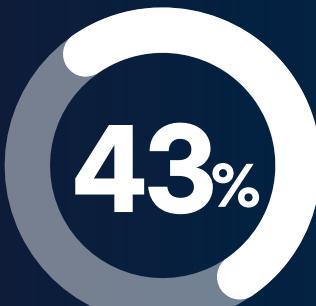
Repetitive bending and heavy lifting place significant strain on industrial workers. Each year, 50 ~60% of workers experience lower back injuries, resulting in lost productivity, higher injury-related costs, and workforce instability.

To address these challenges, FRT Robotics developed StepUp, an industrial exoskeleton designed to reduce physical strain during demanding tasks. Field testing shows that StepUp reduces muscle fatigue by up to 43% and muscle usage by 25%, helping improve workplace safety while supporting sustainable productivity.



Over 1,000 units deployed worldwide.  
Validated by 2,500 wearers in real work Place.  
Trusted by 2,800 users across industries.

#### Field EMG Test Results



Avg. Muscle  
Fatigue Reduction



Avg. Muscle  
Force Reduction

#### Measured Muscle Fatigue Reduction Across Tasks



# A Field-Proven Wearable Muscle Assist Device

Battery-Free  
**Passive Design**

**Personalized Fit**  
with Adjustable  
Length & Angles

**Tree-Level  
Muscle Power  
Assistance**  
10 / 12 / 14 kgf



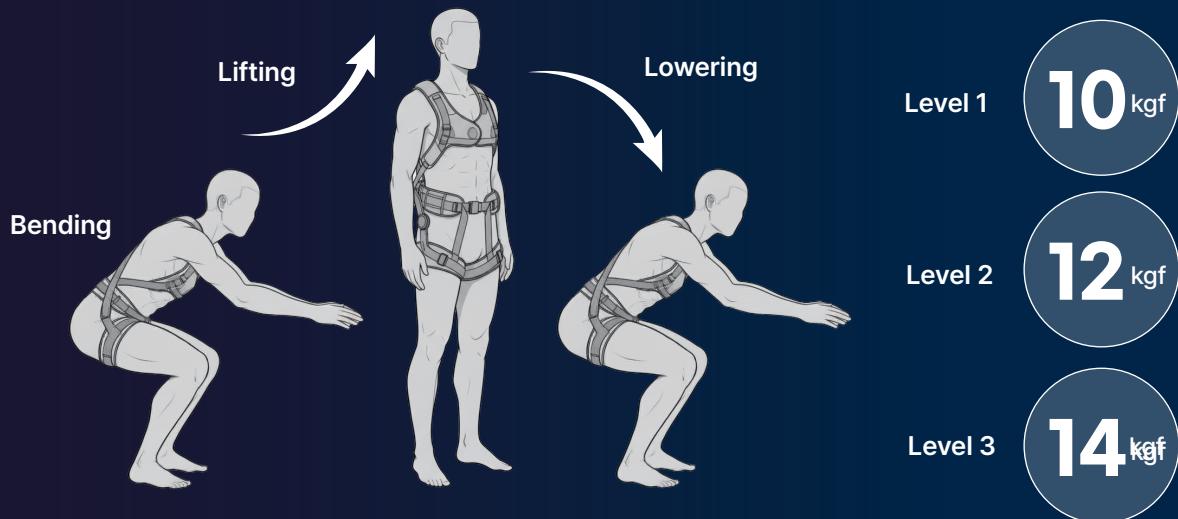
120° Hip Joint  
**Natural &  
Unrestricted  
Movement**

High-Strength  
Lightweight  
Materials  
**Total Weight  
3.6kg**

**Foldable Leg  
Structure**  
for Easy Storage  
& Transport

# Three-Levels Power Assistance for Demanding Tasks

By conserving physical energy during repetitive lifting and lowering tasks, StepUp NEO helps workers maintain productivity over extended work periods. Three selectable assistance levels allow customization based on task type, work duration, and required support.



## Specification

Product name	StepUp NEO
Weight	3.6kg
Color	White
Size	465mm (Width ±60), 825mm (Height ±30), 305mm (Depth)
Muscle Assist Force	10.0kgf (Level 1), 12.0kgf (Level 2), 14.0kgf (Level 3)
Manufacturer	FRT Robotics.Co.,Ltd.
Country of Manufacture	Republic of Korea

# CUSTOMER EXPERIENCE



Experience  
StepUp NEO

**USD 1,500**

\_Taxes and duties not included

# StepUp<sup>NEO</sup>



## Homepage



[www.frtrobotics.com](http://www.frtrobotics.com)

## Contact us

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