



HOW TO USE

StepUp^{NEO}

WEAR THE SAFETY

Battery-free. Lightweight.
43% less fatigue.

FRT ROBOTICS

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ftrrobotics.com

FRT ROBOTICS



Half the fatigue. Twice the productivity.

The moment you wear StepUp NEO, back fatigue drops by 43% and muscle exertion is reduced by 25%. A passive wearable exoskeleton engineered to ease daily strain and protect workers from injury.



Average reduction in lower-back fatigue

43%

※Measured at 20 kg load

Reduction in muscle exertion

25%

Back pain isn't a badge of honor.

Every year, more than half of frontline workers (50–60%) suffer back injuries from repetitive bending and heavy lifting. Musculoskeletal disorders account for 51% of all occupational injuries — the impact is anything but small.

Workplace injuries don't just threaten individual safety; they affect the long-term sustainability and productivity of the business itself. Beyond medical costs, the economic burden takes many forms — lost productivity, replacement labor, rising insurance premiums, and reputational damage.

※ Source : KOSHA (Korea Occupational Safety and Health Agency), Industrial Accident Status Analysis



Proven by the Numbers



Lifting a 20 kg load



Carrying a 20 kg load laterally



Lowering a 20 kg load to the floor

NO BATTERY LIGHT WEIGHT



Passive. Battery-free.

Zero battery. Zero charging. Maximum uptime.
The world's lightest passive exoskeleton — 3.6 kg.



COMFORT FIT

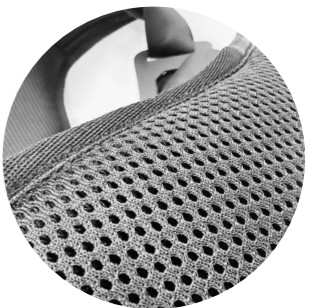
A perfect fit

120° articulated hip joint for full range of motion
Minimal stiffness during walking and squatting
Foldable leg design for easy storage and transport



Stable Core, All-Day Comfort

Premium ultra-light air-mesh padding on the shoulder and chest contact points



Adjustable Sizing

Customizable sizing designed for both men's and women's body types





StepUp^{NEO} delivers the right assistive power for every task.

Three selectable assist levels (10/ 12/ 14 kgf) match the demands of any task — dramatically reducing fatigue during repetitive heavy lifting.



StepUp^{NEO}

Korea's #1 industrial exoskeleton — chosen by the industry.

Selected by national agencies

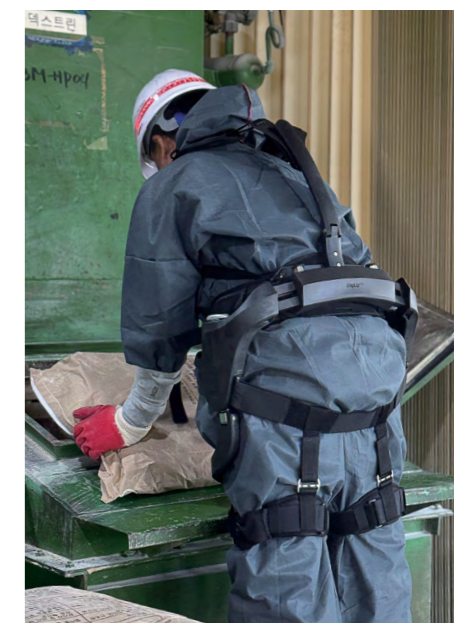
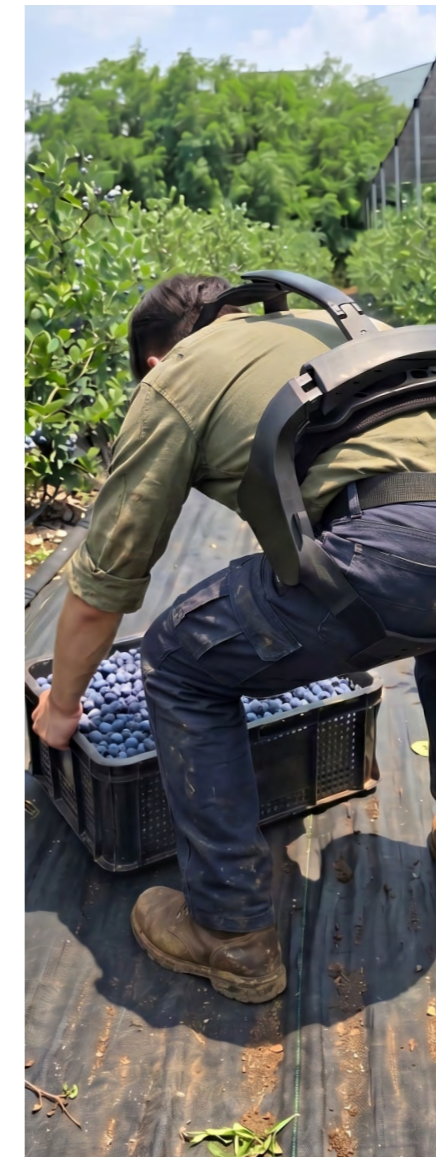
360 units delivered to Korea Forest Service & Fire Authorities

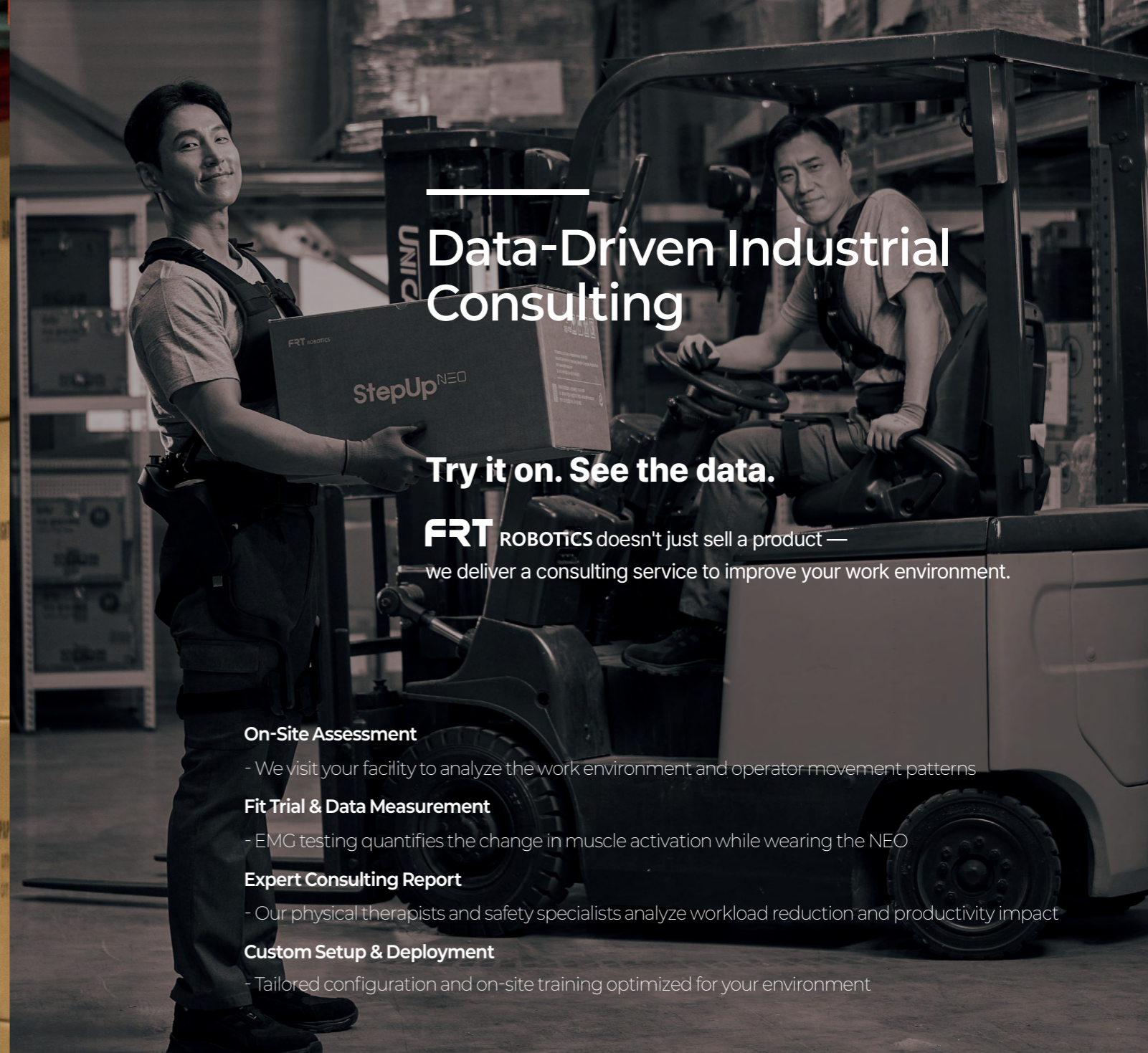
1,000+ units deployed across industrial sites



From warehouses to worksites - a partner you can rely on.

LOGISTICS & DELIVERY	STABILIZES THE LOWER BACK DURING REPETITIVE LOADING AND MATERIAL HANDLING
MANUFACTURING & MAINTENANCE	REDUCES CUMULATIVE FATIGUE FROM PROLONGED AWKWARD POSTURES
FORESTRY & FIRE SERVICE	LESSENS BACK STRAIN ON STEEP TERRAIN AND DURING EQUIPMENT TRANSPORT
ELDERLY CARE & NURSING	REDUCES PHYSICAL STRAIN ON CAREGIVERS DURING PATIENT TRANSFERS AND REPOSITIONING
AGRICULTURE & FORESTRY	REDUCES CUMULATIVE FATIGUE DURING HARVESTING, LOADING, AND REPETITIVE BENDING





Data-Driven Industrial Consulting

Try it on. See the data.

FRT ROBOTICS doesn't just sell a product — we deliver a consulting service to improve your work environment.

On-Site Assessment

- We visit your facility to analyze the work environment and operator movement patterns

Fit Trial & Data Measurement

- EMG testing quantifies the change in muscle activation while wearing the NEO

Expert Consulting Report

- Our physical therapists and safety specialists analyze workload reduction and productivity impact

Custom Setup & Deployment

- Tailored configuration and on-site training optimized for your environment

Product Name	StepUp NEO
Weight	3.6 kg
Color	Black
Dimensions	W : 465mm (±60) / H : 825mm (±30) / D : 305mm
Assistive Force	Level 1 - 10.0kgf / Level 2 - 12.0kgf / Level 3 - 14.0kgf
Manufacturer	FRT Robotics Co., Ltd.
Country of Origin	Republic of Korea (Made in Korea)

