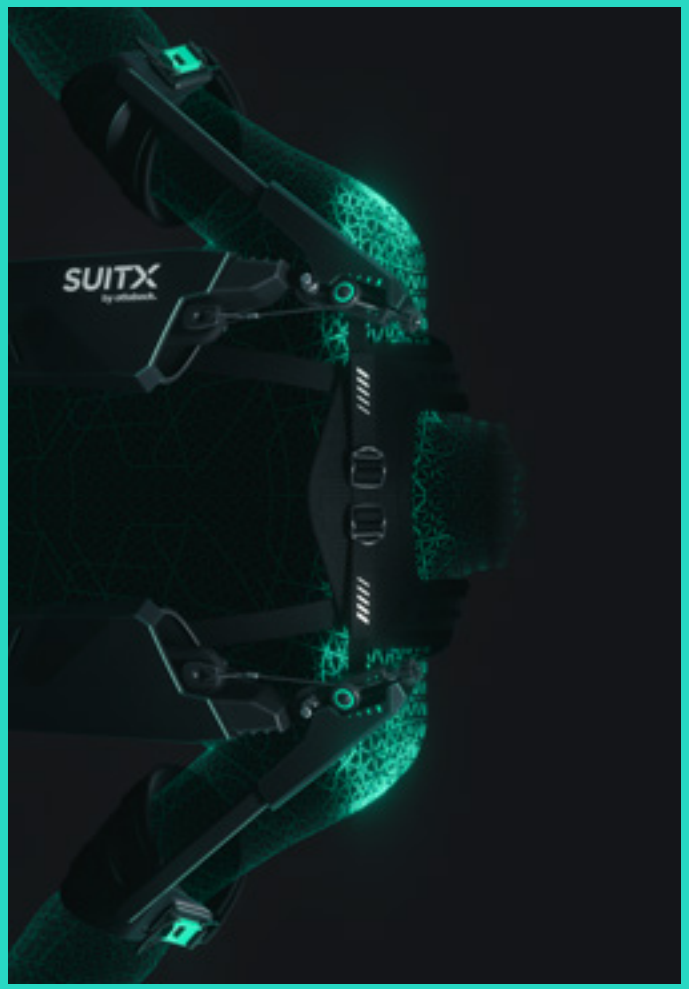
Futuring Human Performance

Redefining work with IX SHOULDER AIR and IX BACK AIR



SUITX
by ottobock.

IX SHOULDER AIR



IX BACK AIR



Index

IX SHOULDER AIR

Change your industry game with better performance and less fatigue

5 Intro
6 Benefits & Facts
9 Use Cases
10 Success Stories
12 Tech Specs
13 Implementation
14 Our Experience Packages

IX BACK AIR

Protects the back, increases performance and endurance

15 Intro
16 Benefits & Facts
19 Use Cases
20 Success Stories
22 Tech Specs
23 Implementation
24 Our Experience Packages

SUITX by Ottobock

For more than a decade, SUITX has been committed to the mission of making everyday tasks in physically demanding workplaces easier through the development of ‚wearables'.

SUITX emerged from the Robotics and Human Engineering Laboratory at the University of California, Berkeley in 2012 and was acquired by Ottobock in 2021.

Ottobock, a world-wide leader with over 100 years of experience in the development and manufacturing of bio-mechanical and orthopedic products, has been researching innovative solutions to make workplaces more ergonomic, minimize physical strain and create healthier working conditions.

In partnership with Ottobock, SUITX develops highly efficient yet extremely lightweight exoskeletons, utilizing the distribution and marketing experience that Ottobock has in over 35 countries.

Today, SUITX by Ottobock is a truly international team with colleagues from 15+ nationalities on three continents.

Introducing:
IX SHOULDER AIR



Benefits & Facts

Powered by AIR-Drive®
Ground-breaking shoulder relief harnessed through the power of natural body movement. The IX SHOULDER AIR is the lightest of its kind and allows full freedom of movement. All of our IX AIR Series exoskeletons function without a battery and utilize the body‘s own energy.

15%
Improved productivity

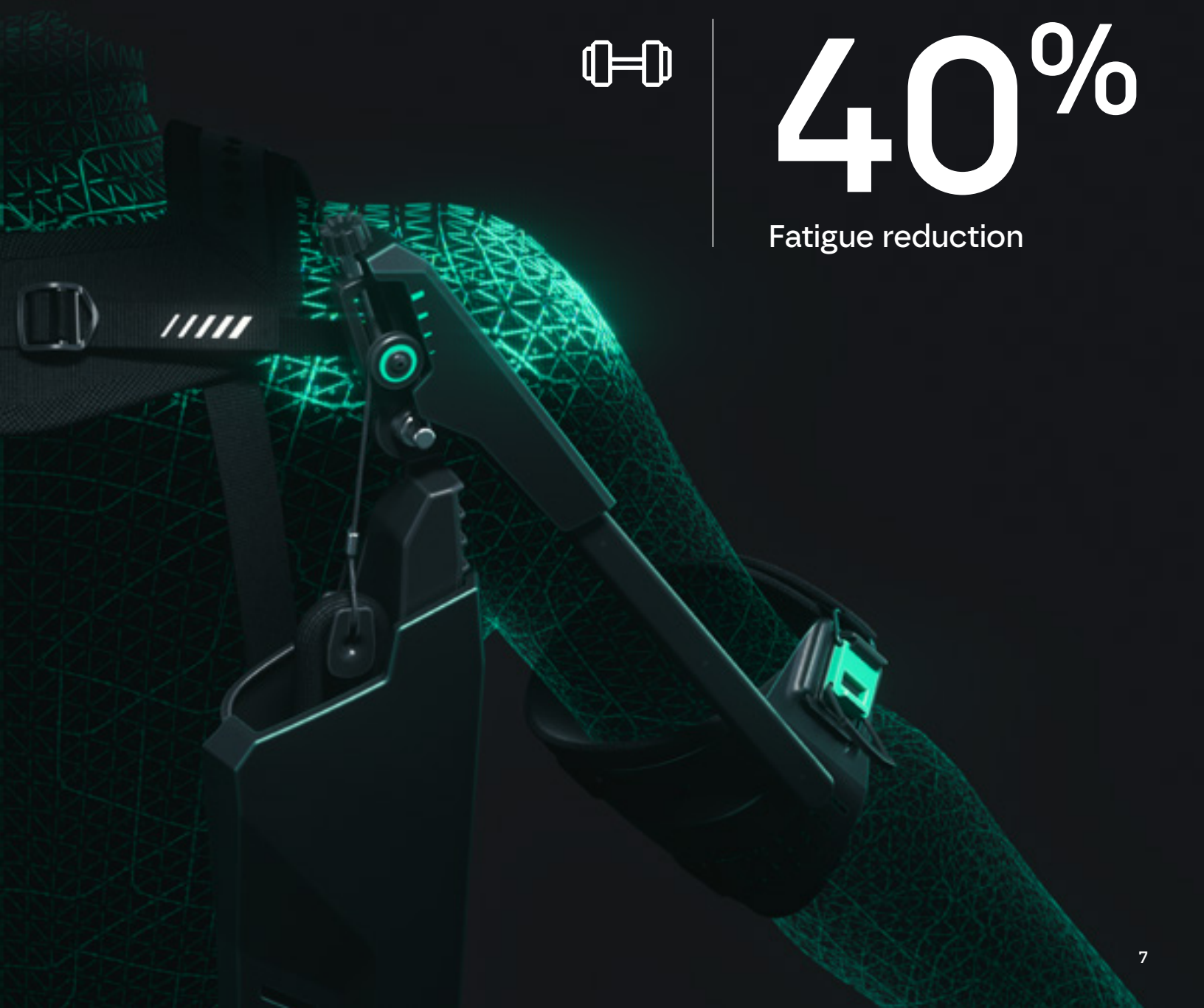


28%

Improved precision and reduced quality errors

40%

Fatigue reduction



2,000+

Companies made safer with SUITX

Unparalleled freedom of movement

One-size-fits-all

Unrivaled Facts



2 kg

Lightest shoulder exo of its kind

< 20 s

Lightning-fast donning and doffing

Ready, set, go.



How it is worn

The IX SHOULDER AIR is the lightest of its kind and allows full freedom of movement. All of our IX AIR Series exoskeletons function without a battery and use the body's own energy.

Combine them for everyday situations

An integrable neck support (CX EASY NECK) to relieve the cervical spine, a Shoulder Jacket for welding work, a strap for tool holders, or for use in combination with harnesses for personal protection against falls. The IX SHOULDER AIR offers solutions for many situations in everyday work.





The benefits

The IX SHOULDER AIR has benefited from the input of several thousand user experiences. The outcome: straightforward adjustment features that enable users to don the exoskeleton in under 20 seconds. Plus, the surfaces are easy to clean, and all textiles are removable and washable.

Success Stories

Zero injuries and related costs since deployment in 2018.

Norm Bafunno, VP Manufacturing, Toyota

These Exos keep our teammates injury-free and allow them to go home feeling great. Many areas continue to see zero injuries a year later.

Paul J. Wright, Sr. Director Safety, Boeing

The close support by trained Ergonomic Specialists during the pilot phase helped us to identify the right workstations and make them more ergonomical with exoskeletons. SUITX by Ottobock was a reliable partner during the introduction. Today our employees use exoskeletons on a daily basis in the goods inward department and the warehouse.

Markus Nendwich, Aptiv Mobility Services


SUITX
by ottobock.

Tech Specs

Biomechanical design guarantees full freedom of movement and fast mounting and removal in < 20 seconds in every situation. The ergonomic waist belt, intuitive adjustments and a one-size-fits-all system guarantee high comfort even during 8 hour shifts. Proven to reduce stress on shoulder muscles and joints by over 40 %.



Hyper robust

Highly adaptable

Light weight

Easy settings

Implementation

Our approach to introduce exoskeletons into your environment and to ensure successful testing. We work with you from workstation analysis to long-term implementation.

BEFORE TRIAL

Use-case vetting

_In-depth review of intended use cases and vetting our exoskeleton solutions
_Consultation on an individualized roll-out plan
_Best-practice sharing for best outcome

DURING TRIAL

Guided implementation

_On-site introduction to the technology and in-depth training
_On-site consultation on roll-out strategy and optimal fitting
_Best-practice sharing on cleaning, storing and train-the-trainer programs

POST TRIAL

Evaluation and next steps

_Evaluation of pilot results and significant findings
_In-depth preparation of roll out plan
_Discussion on next steps

Our Experience

Experience Basic

from 2.900 €

_2 IX SHOULDER AIR exoskeletons
_2 weeks virtually accompanied test phase

Experience Standard

on request

_6 IX SHOULDER AIR exoskeletons
_4 weeks on site and virtually accompanied test phase

Experience Analytics

on request

_10 IX SHOULDER AIR exoskeletons
_Accompanied test phase with sensor-based workplace analysis

Packages

Newcomer:
IX BACK AIR



Benefits & Facts



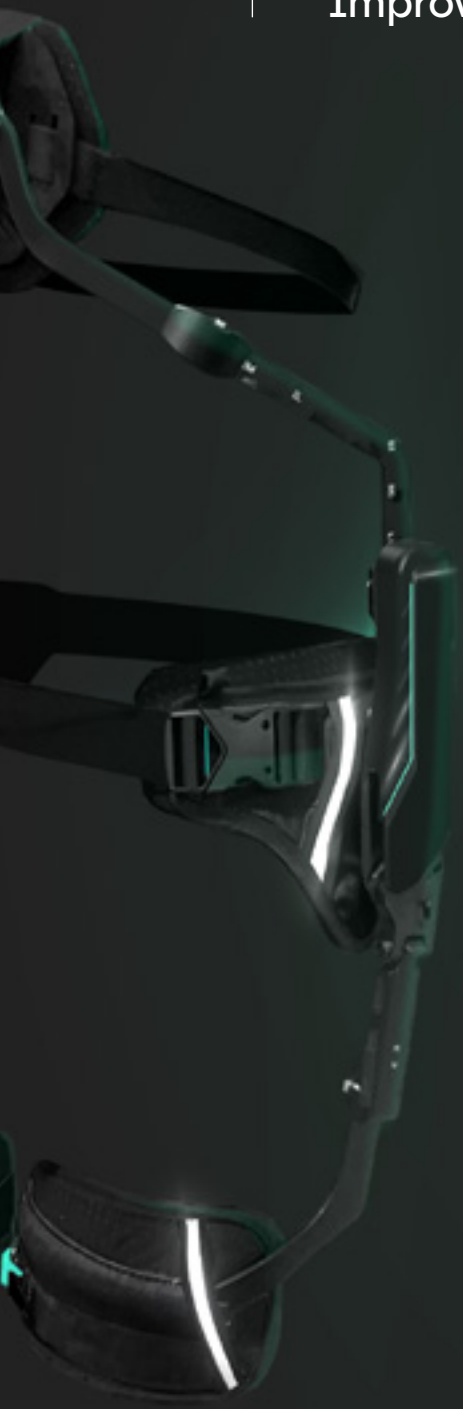
52%

Improved endurance

The IX BACK AIR
Our back exo suit reborn: more efficiency in reducing spinal compression while allowing the wearer full freedom of movement.

65%

Improved posture



56%

Fatigue reduction

Unrivaled Facts

Unparalleled breathability

ZERO added spinal compression



One-size-fits-all

3 kg

Lightest back exoskeleton in its class

< 20 s

Lightning-fast donning and doffing

Individual work force



Optimized for your use case

IX BACK AIR is optimized for people who move and need to be flexible. It reduces the strain on the lower back when bent over by 56-75 %. At the same time, it allows a high degree of freedom of movement, for example to operate a forklift, work in narrow environments (containers) or climb stairs.

The key to productivity

Overexertion and poor posture lead to discomfort, fatigue and loss of productivity. IX BACK AIR increases endurance by up to 52 % after repetitive lifting tasks. This is both beneficial to the user and also your organization.





Comfortable fit

IX BACK AIR is adaptable to your individual body size. With a weight of less than 3 kg it allows for comfortable use throughout the shift. Unlike other exoskeletons, IX BACK AIR does not add spinal compression through springs or rubber bands along the lower back. This makes it exceptionally effective at supporting ergonomic lifting.

Success Stories

Over the past three years the advances in exoskeleton development have been very noticable, and I'm particularly pleased to see the developers incorporating user feedback to make the devices lighter and simpler. I firmly expect these advances to continue in the future.

Stephen Moser, Mercedes-Benz

We focus on the health of our employees and also want to remain attractive as an employer. Employees who wear it, tire less quickly and feel more rested at the end of the shift.

Gerald Müller, DB Schenker

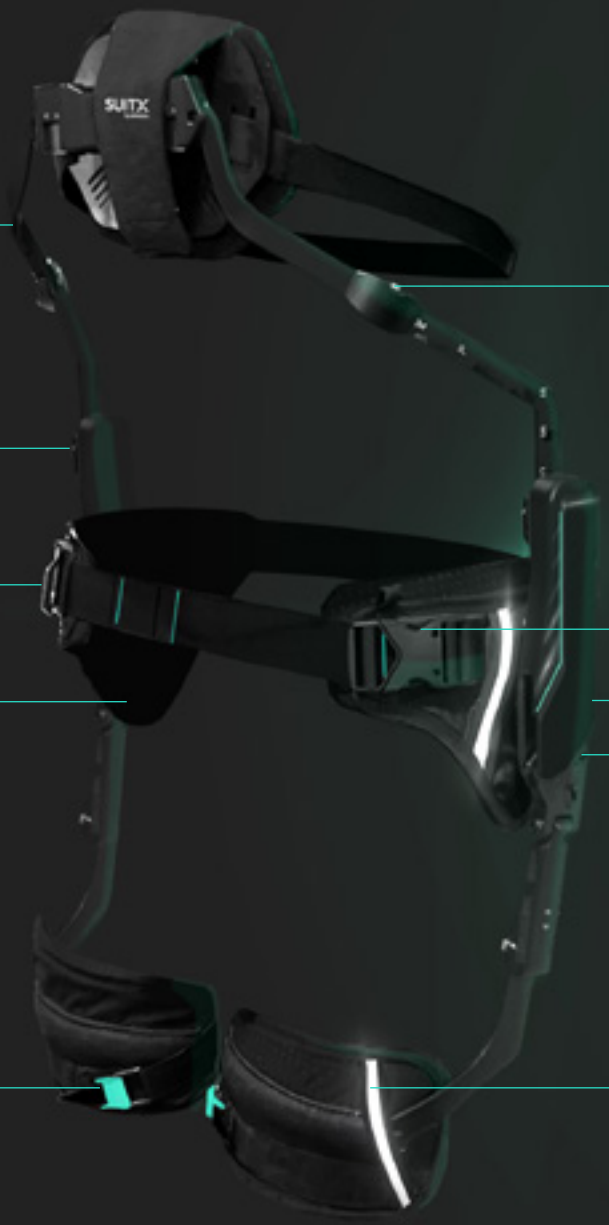
We found significant reduction in medical visits among exoskeleton users.

Marty Smets, Technical Expert, Ford



Tech Specs

Biomechanical design guarantees full freedom of movement and fast mounting and removal in < 20 seconds in every situation. The ergonomic waist belt, intuitive adjustments and a one-size-fits-all system guarantee high comfort even during 8 hour shifts. Proven to reduce stress on the lower back by 56%.



Diamond like Carbon (DLC) coating for increased durability

AIR-DRIVE with one million cycles tested

Camlock for fast size setting

Detachable and washable pads

Industry first reversible fidlocks

Easy, tool-free size adjustements

Hip buckle for quick donning and doffing

On/Off-switch

Support setting

Safety reflectors for increased visibility

One-size-fits-all design

Highly adaptable

Light weight

Performance

Implementation

Our approach to introduce exoskeletons into your environment and to ensure successful testing. We work with you from workstation analysis to long-term implementation.

BEFORE TRIAL

Use-case vetting

_In-depth review of intended use cases and vetting our exoskeleton solutions
_Consultation on an individualized roll-out plan
_Best-practice sharing for best outcome

DURING TRIAL

Guided implementation

_On-site introduction to the technology and in-depth training
_On-site consultation on roll-out strategy and optimal fitting
_Best-practice sharing on cleaning, storing and train-the-trainer programs

POST TRIAL

Evaluation and next steps

_Evaluation of pilot results and significant findings
_In-depth preparation of roll out plan
_Discussion on next steps

Our Experience

Experience Basic

from 2.900 €

_2 IX BACK AIR exoskeletons
_2 weeks virtually accompanied test phase

Experience Standard

on request

_6 IX BACK AIR exoskeletons
_4 weeks on site and virtually accompanied test phase

Experience Analytics

on request

_10 IX BACK AIR exoskeletons
_Accompanied test phase with sensor-based workplace analysis

Packages







www.suitx.com