

# Futuring Human Performance

Redefining work with IX SHOULDER AIR and IX BACK AIR



**SUITX**  
by ottobock.

# IX SHOULDER AIR



# IX BACK AIR



# Index

---

<b>IX SHOULDER AIR</b>	<b>5</b>	Intro
	<b>6</b>	Benefits & Facts
	<b>9</b>	Use Cases
	<b>10</b>	Success Stories
	<b>12</b>	Tech Specs
	<b>13</b>	Implementation
Change your industry game with better performance and less fatigue	<b>14</b>	Our Trial Programs

---

<b>IX BACK AIR</b>	<b>15</b>	Intro
	<b>16</b>	Benefits & Facts
	<b>19</b>	Use Cases
	<b>20</b>	Success Stories
	<b>22</b>	Tech Specs
	<b>23</b>	Implementation
Protects the back, increases performance and endurance	<b>24</b>	Our Trial Programs

# 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‘.

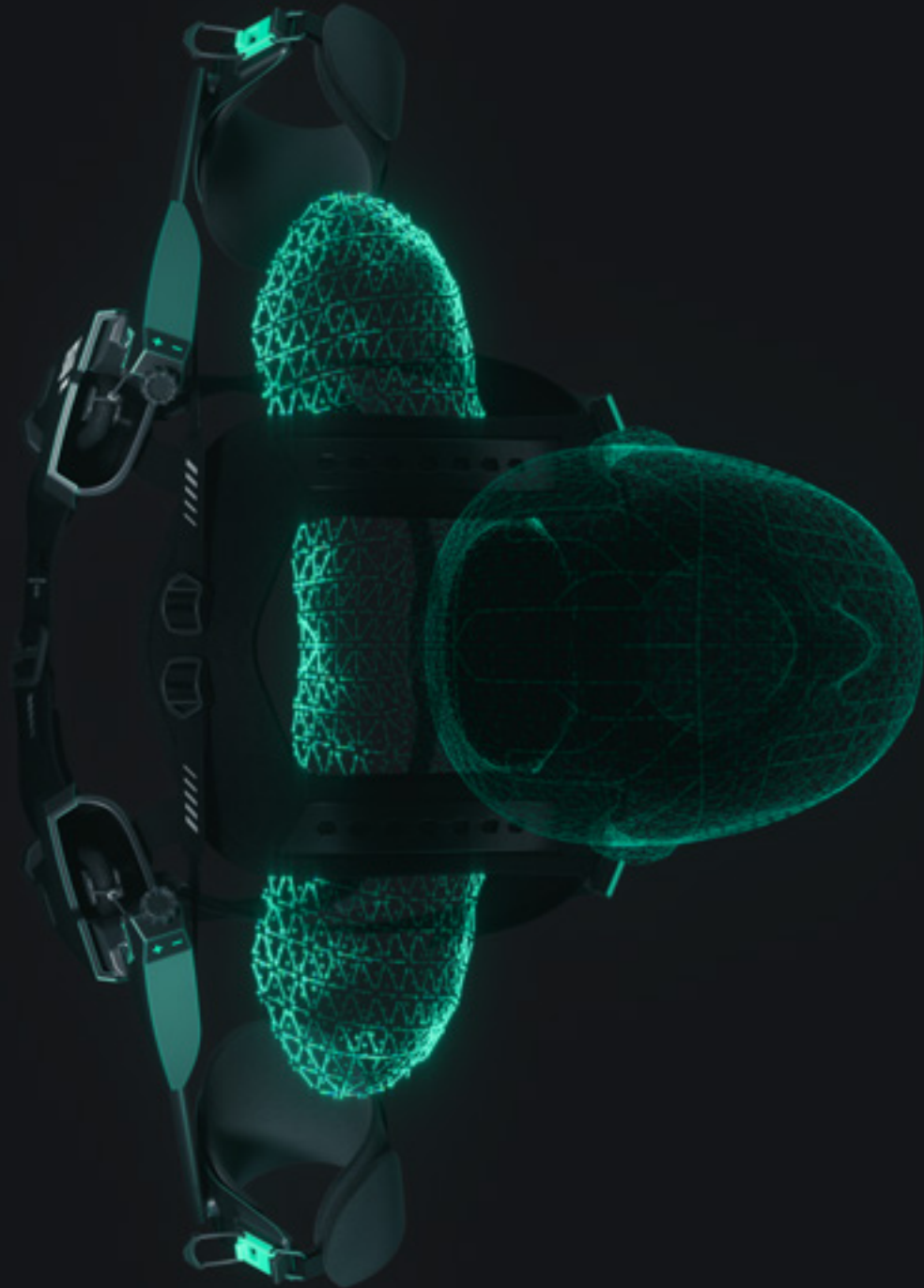
SUITX emerged from the Robotics and Human Engineering Laboratory at the University of California, Berkeley in 2012 and was acquired by Ottobock in 2021.

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





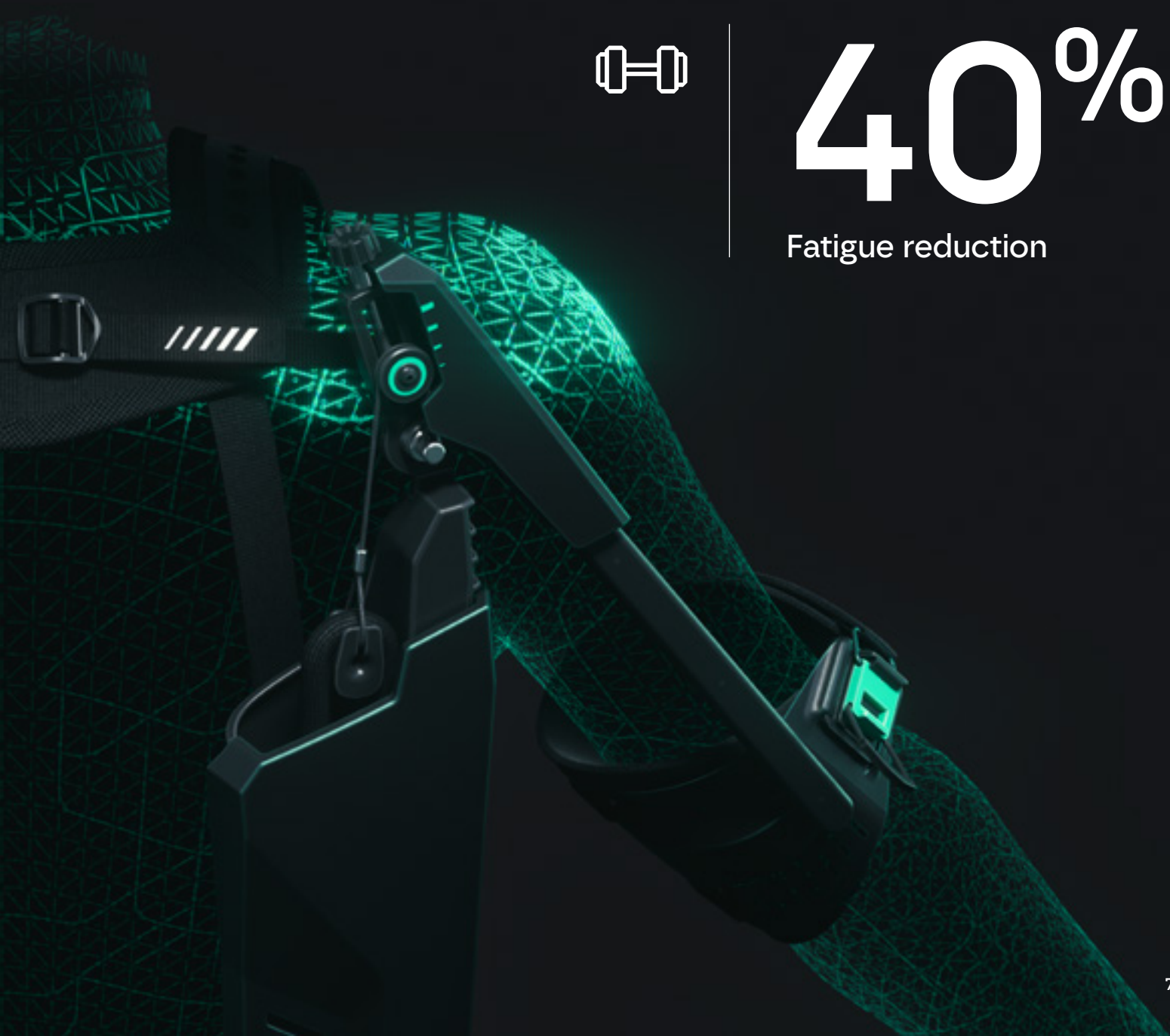
# 28%

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

4,9 lbs

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





# 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 %.

Industry first reversible fidlock

Neck support attachment

Adjustment wheel for support level

Easy, tool-free adjustment to customize for a wide range of body types

Arm cuff with washable pads

Hip belt with added safety reflectors and tool loops

Hip width adjustment



Hyper robust



Highly adaptable



Light weight



Easy settings

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

# Implementation

# Our Trial

## Discovery Program

\$ 2,990

- \_1-Day on-site tech demonstration of our suite of exoskeletons
- \_Use-case assessment and best-practice sharing with our experts
- \_In-depth consultation on implementation and next steps

## Xperience Program

\$ 9,990

- \_Includes everything from the Discovery Program +
- \_Pilot up to 5 exoskeletons on-site for two weeks
- \_Two-day on-site training and implementation support

## Bionic Analytics Program

\$ 49,990

- \_Includes everything from the Xperience Program +
- \_Sensor-based analysis of exoskeleton pilot
- \_Data includes productivity gains, posture improvement and ergonomic benefits

# Programs

# 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.







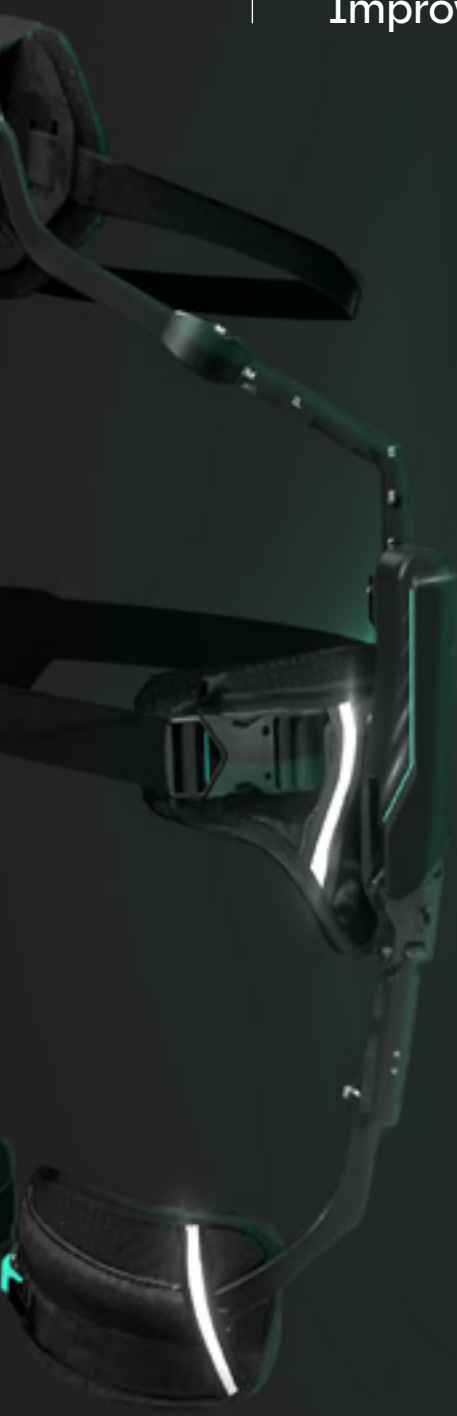
65%

Improved posture



56%

Fatigue reduction



# Unrivaled Facts



Unparalleled breathability



ZERO added spinal compression



One-size-fits-all

**6.8 lbs**

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 6.8 lbs 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 noticeable, 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

Easy, tool-free size adjustments

AIR-DRIVE with one million cycles tested

Camlock for fast size setting

Hip buckle for quick donning and doffing

Detachable and washable pads


On/Off-switch

Support setting


Industry first reversible fidlocks

Safety reflectors for increased visibility

 One-size-fits-all design

 Highly adaptable

 Light weight

 Performance

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

# Implementation

# Our Trial

## Discovery Program

\$ 2,990

- \_1-Day on-site tech demonstration of our suite of exoskeletons
- \_Use-case assessment and best-practice sharing with our experts
- \_In-depth consultation on implementation and next steps

## Xperience Program

\$ 9,990

- \_Includes everything from the Discovery Program +
- \_Pilot up to 5 exoskeletons on-site for two weeks
- \_Two-day on-site training and implementation support

## Bionic Analytics Program

\$ 49,990

- \_Includes everything from the Xperience Program +
- \_Sensor-based analysis of exoskeleton pilot
- \_Data includes productivity gains, posture improvement and ergonomic benefits

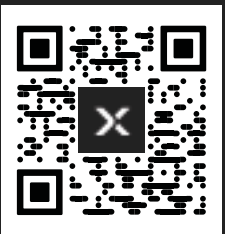
# Programs











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