

**ottobock.**

# Paexo

Personal assistive systems for ergonomic work in industry, logistics and building trades

## Ottobock – a family business

German global market leader Ottobock stands for high-quality, technologically outstanding solutions in the field of medical technology and has been in business since 1919. Subsidiaries in more than 57 countries offer “Made in Germany” quality worldwide and employ more than 7,000 people.

### About Ottobock Industrials

Companies are facing special challenges in view of demographic shifts. The rising life expectancy and decreasing birth rate are leading to an ageing workforce and a lack of workers. This results in an increased demand for technical solutions that help people protect their health over the long term as they carry out their everyday working routines. Ottobock Industrials develops precisely such innovative devices for an ergonomic workplace.

Since 2012, the company has been researching innovative solutions to make jobs in industry, logistics and trades more ergonomic. The goal is to provide relief for people who perform physically demanding tasks such as overhead work, thereby creating healthier working conditions.

“Our employees were delighted by the way it immediately relieved strain on their muscles, for example during overhead welding or electrical installations under ceilings. My impression is that exoskeletons also make jobs in industrial assembly more attractive. They can increase employee loyalty and help us recruit new employees.”

Kersten Thor,  
CEO of THOR Industriemontagen GmbH & Co. KG

### We're happy to advise you:

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100 Years

Quality for life

## Paexo Shoulder

The lightest exoskeleton of its kind

The Paexo Shoulder is a passive exoskeleton that supports people who carry out physically demanding tasks with their arms raised on a daily basis. It relieves strain on the shoulder joints and upper arms, for example during overhead work on assembly lines, in the building trade and maintenance.

#### Benefits at a glance

- Relieves strain in the shoulder area by more than 50% during work above chest height
- Quick to put on or take off in under 20 seconds
- Weighs 1.9 kg (4.1 lbs) with full freedom of movement
- Individually adjustable to body sizes from 160 to 190 cm (5.2 to 6.3 ft)



## Paexo Back

Relief for the Lower Back

The Paexo Back was developed in warehouses and parcel distribution centers, together with logistics experts and users. It is aimed at logistics companies and operators of warehouses who are looking for personal measures to support their employees in the manual handling of loads. The biomechanical principle of action enables a significant relief of the lumbar spine during lifting loads.

#### Benefits at a glance

- Relieves the spine measurably and noticeably without restricting movement
- Quick to put on or take off within 20 seconds
- Low weight due to passive system and relief of the lower spine by up to 25 kg
- High adaptability and comfortable use for women and men



Quality for life

## Paexo Neck

Relief of the cervical spine when working overhead

The Paexo Neck is a neck support that relieves the neck region and cervical spine. The shoulder and neck sections can be individually adapted to every user's work posture by selecting the preferred angle setting. This makes the Paexo Neck very comfortable to wear. It can be worn for all kinds of overhead work, such as ceiling installation or visual inspection. The Paexo Neck can be combined with the Paexo Shoulder.

### Benefits at a glance

-  Flexible neck support for excellent comfort in overhead work
-  Easy to put on in a few seconds, individually adaptable
-  Robust, featherweight design
-  Can be worn together with the Paexo Shoulder for effective neck and shoulder relief

## Paexo Thumb

The smallest exoskeleton in the world

The Paexo Thumb is a passive exoskeleton that supports people who place strain on their thumb at work on a daily basis. It relieves the sensitive joints of the thumb and protects the tip of the thumb against mechanical influences. It places the user's thumb into an ergonomic hand position for clipping, inserting or plugging tasks on the assembly line or during paint work.

### Benefits at a glance

-  Relieves strain on the thumb by up to 70% by redirecting forces through the entire hand
-  Easy handling thanks to low weight, straightforward cleaning, can be put on or taken off quickly
-  Full freedom of movement for thumb joint
-  Good fit thanks to seven available sizes

## Paexo Soft Back

Supports the lower spine during standing activities and light load handling

The Paexo Soft Back provides a high level of support for the lower back region. It supports an ergonomic body posture when standing and lifting. Possible applications include picking, handling lighter loads and lifting packages. It also supports the lower spine when standing for extended durations in work station tasks. It can be combined with the Paexo Shoulder.

### Benefits at a glance

-  Supports the upright posture while standing and promotes an ergonomic lifting posture
-  Easy to put on and take off in just a few seconds
-  Discreet design, highly adjustable with 5 different sizes
-  Can be combined with the Paexo Shoulder for effective relief of the lower back

## Paexo Wrist

Effective support for the wrist when handling loads

The Paexo Wrist is a wrist support that Ottobock Industrials derived from a medical device aimed at treating conditions such as inflammation in the wrist. It uses a preventive approach and bridges the wrist. Applications include holding rivet removers or welding equipment and moving or installing generators and starter motors.

### Benefits at a glance

-  Relieves strain on the wrist joint when lifting and holding objects
-  Can be fitted with just one hand thanks to Pull-2-Lock
-  Regulates wrist temperature thanks to innovative Outlast material – tested in space
-  Suitable for left or right side; highly adaptable with just three sizes

