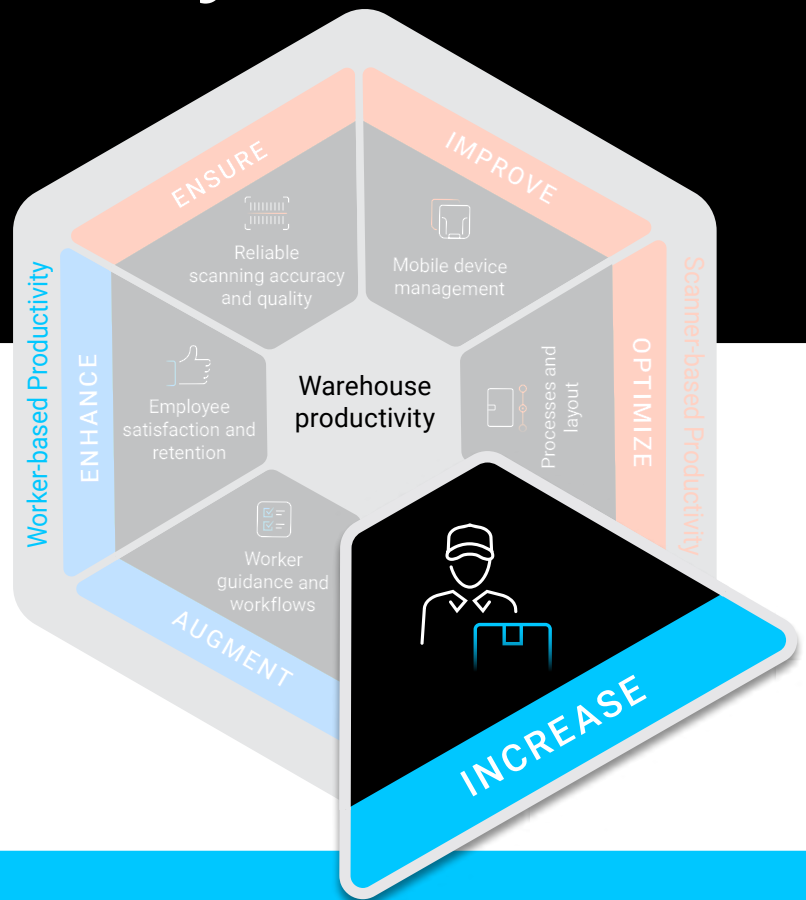


Where productivity starts

# Increase worker health and safety

## Six solutions paths to warehouse productivity

Investment in any individual path is a strong lever for productivity improvement. Together, they optimize the building blocks of barcode scanning: speed; accuracy; worker health and safety.



## Worker health and safety is central to warehouse productivity

When frontline workers in the warehouse can get around more easily with natural movements in their workflows, operations managers can expect fewer injuries and higher productivity. Traditional scanners are heavy, poorly designed for ergonomics, and require awkward or repetitive motions to operate.

**\$100B** /year  
Cost of repetitive task injuries

**70%** this year  
of 3PL facilities in the US  
will utilize wearables

**95%**  
Worker approval rating  
of ProGlove

# Barcode scanning is a universal task

The main health risk for warehouse operators is -skeletal disorders, or MSDs. An MSD is the classification for repetitive task related injuries like tendonitis, carpal tunnel syndrome, or even muscle and tendon strain. According to OSHA, work-related MSDs are the most frequent cause of lost or restricted work time.

Everything in a warehouse is scanned multiple times in its journey from receiving to shipping. The type of scanner that is used has a significant impact on the incidence of repetitive motion injuries, as well as the speed and accuracy of the scan.

There are two main types of barcode scanners in use. When considering which is appropriate, operations should assess not only the job to be done (e.g., picking), but also the health and safety implications for the worker.

1. The most popular are handheld scanners, which have wired and wireless versions. Most are designed as a pistol, with a trigger for activation. These tend to be heavy, and awkward to use as the barcode must be scanned within a specific angle.
2. Wearable scanners are both mobile and hands-free. They can be simple point-and-shoot or complex with displays. Each is equipped with Bluetooth technology. Their light weight and ergonomic design are proven to be safer and more productive.

According to Supply Chain Brain, by 2023 close to 70% of 3PL (third-party logistics) facilities in the US will utilize wearables.



# Why are wearables better for workers?

Wearable scanners give workers something they didn't have before. Hands-free operation that gives them complete freedom of motion. Wearable scanners are the smarter choice for the warehouse workforce:

1. Each device is lightweight and ergonomically designed and they conform to the workers' natural range of motion. This results in fewer injuries, less fatigue, and reduced absenteeism.
2. They allow workers to complete their assignments faster, with fewer rescans, and less exertion and stress.
3. Above all, they are embraced by workers. ProGlove customers give our devices a 95% approval rating. That is a strong argument in favor of turning the tide on worker retention and recruiting.

74%

of workers are willing to trade pay for better tech to do their jobs

90%\*

believe tech is a critical driver in employee

\*ProGlove Survey Report: Productivity in the Warehouse

## ProGlove customers report:

20%

gain in warehouse productivity

33%

fewer errors

6 seconds saved per scan



# Helping workers achieve



ProGlove has focused our next-generation thinking on the potential of the individual worker to excel.

“The human workforce is the center of our universe. We develop integrated hardware and software solutions that can interact with the worker to guide them through their day. Our technology can generate data that will help management to improve workflows, as well as worker health, safety, satisfaction, safety, and contribution. We aspire to be the innovators, the disruptors that usher in a new era of logistics quality and productivity.”

**Ilhan Kolko, CPO, ProGlove**

From this unrelenting focus on the worker we have developed an ergonomically-designed, lightweight, hands-free scanning solution that increases speed, accuracy, and enables:

- A healthier workforce where in the instance of work-related injury is greatly reduced.
- A safer and more satisfying work environment, where each worker’s day requires less exertion and repetitive motion, and accomplishes more.

“All workers wanted to use ProGlove immediately after introducing it.”

**MEHMET TONBAK**

Manager of Continuous Improvement  
Trelleborg

We put the health and safety of the worker first. Our foremost concern is to design for comfort, ease of use, and to avoid injuries.

1. For many customers, our devices represent a weight reduction of **50% - 60%**.
2. Shoulder movement is reduced, and the angles that the worker’s wrist must assume to operate the scanner are greatly reduced.
3. Our ergonomic design considers the entire range of motion that is possible in all situations a worker might encounter over the course of a shift.



“With ProGlove we are faster by far, because we can work hands-free. We are safer along the way, because we have a firm grip on the parts.”

**ALFRED FERSTL**

Former Warehouse Manager  
BMW Group Dynamic Center Dingolfing

## A checklist for worker health and safety

- Identify the most frequent worker injuries and the causative factors, especially from barcode scanning.
- Understand the health and safety implications of the types of scanners you are considering.
- Select scanners to maximize both the uptime and safety of workers.
- Realize that heightened health and safety are not only precursors to productivity gains, but are also important to worker retention and recruitment.

## Ready to work smarter?

Visit [ProGlove.com](http://ProGlove.com) to see how ProGlove addresses 6 individual paths to increased warehouse productivity.

1. **Worker health & safety**
2. Worker guidance & workflows
3. Employee satisfaction & retention
4. Reliable scanning accuracy & quality
5. Mobile device management
6. Processes & layout

