

PROGLOVE

An abstract graphic consisting of several overlapping, curved lines in shades of orange and red. The lines originate from the bottom left and sweep upwards and to the right, creating a sense of motion and growth. The lines vary in thickness, with some being thin and others being more prominent. The background is a solid dark blue.

Innovating
Human-Centered
Productivity

ProGlove and the Logistics and Transportation Industries Innovating human-centered productivity

These three words, innovating human-centered productivity, best describe why we do what we do - to bring transformative value to your warehouse and distribution operations.

It's our passion and our mission.

Let us show you how you can benefit from the speed, accuracy, and ergonomics of our products, and our vision for a smarter, more productive (and predictive) future.

The backbone of industry

Bringing goods and services to market is essential to the functioning of our economy. Whether it's produce, manufactured goods, or simply moving products from place to place, logistics and transportation are irreplaceable.

The logistics and transportation industries are critical to promoting trade and ensuring smooth operations. However, escalating costs, customer demand, and ever-changing legislation are creating enormous hurdles.

The warehouses and distribution centers are key leverage points as logistics and transportation look to overcome these hurdles and forge greater success. ProGlove's vision and innovation are ushering in a new age of productivity, predictability, and profitability.

Let's take a look at three of these challenges that center on the warehouse.



Driving efficiency in the depot

At the base level, the efficiency of the depot varies with the efficiency of the scanning process. The device and technology that makes the scan faster and more accurate empowers the human to have greater control, and to be more productive. The faster and more accurate the scans, the greater the increase in both efficiency and productivity.



Logistics and transportation customers have seen increased speed (of 4 seconds or more per scan) and a reduction in errors (by 33% on average). A variety of issues can be avoided by improving the scanning process, including the need for repeat scans and delayed shipments that may not contain all the right items.

Moreover, as this significantly more reliable data is fed into the system, subsequent processes that rely on this data are improved. This includes, for example, forecasting, purchasing, shipping, sales, and ultimately customer satisfaction and ROI.

Here is what our customers
achieve with ProGlove

SAVING FROM

2-6

seconds
per scan

EXPERIENCING UP TO

33%

fewer errors

UP TO A

20%

increase in
productivity

Improving customer service

The fortunes of logistics and transportation companies rise and fall with customer satisfaction. Customers, by and large, do not care that markets are dynamic, competition is increasing, and that supply chains have grown more complex. They expect delivery on-time and in-full (OTIF), exactly when they need it.

Simply put, ProGlove's tools and technology of human worker augmentation ensures that the depot is more productive, the data that is generated is more accurate and reliable, and that ensures commitments are consistently met.

Lack of competent labor and specialized experts.

The pandemic also hit warehouse staffing hard. It's hard to find qualified warehouse personnel and harder still to maintain a stable, high-quality, dedicated workforce.



Efficiency and productivity suffer if the workers are overworked, and need to use tools are heavy and unwieldy and that burden their health. Plus, this fuels significant workforce turnover, increasing recruiting and training expenditures.

There are three elements to finding and keeping the right workers:

1. Pay
2. Benefits
3. Working environment

ProGlove's wearable barcode scanning and software technology turns the tide by increasing worker satisfaction, making the warehouse working environment a more attractive place. Health and safety concerns loom large, as does technology that is easy to use, ergonomically designed, and help them to complete their work quicker with less errors.

Moreover, ProGlove's technology provides data from the shop floor - insights that you are likely missing - to rethink processes, workflows, and layout.

Scanner productivity is the primary lever for success

To offset these challenges, logistics and transportation companies need their warehouses and distribution centers to become as accurate productive, and flexible as possible.

Barcode scanning has become the essential activity within all logistics and transportation processes with every part scanned multiple times throughout its journey from inception to delivery. Absolutely everything depends on productivity - the speed and accuracy of the scanning process.

ProGlove is the partner of choice for logistics and transportation warehouses and distribution centers. The speed, accuracy, and ergonomics of our wearables has boosted productivity for customers by 20% or more. Our vision, our commitment to bringing you the data from the shop floor, from the humans doing the work, will lead to a smarter, more productive, more profitable future.



ProGlove is where productivity starts.

OUR PARTNERS IN PRODUCTIVITY

Logistics

GXO

DHL

DB SCHENKER



Global Logistics



Lufthansa Technik
Logistik Services



Your eyes and ears on the warehouse floor

Significant increases in productivity are in the hands, and on the hands, of your workers. Innovating human-driven productivity is our mission and our passion.



Here are 6 use cases where ProGlove's ergonomic scanners and future-oriented solutions expand warehouse productivity horizons

1 Increasing Worker Health and Safety

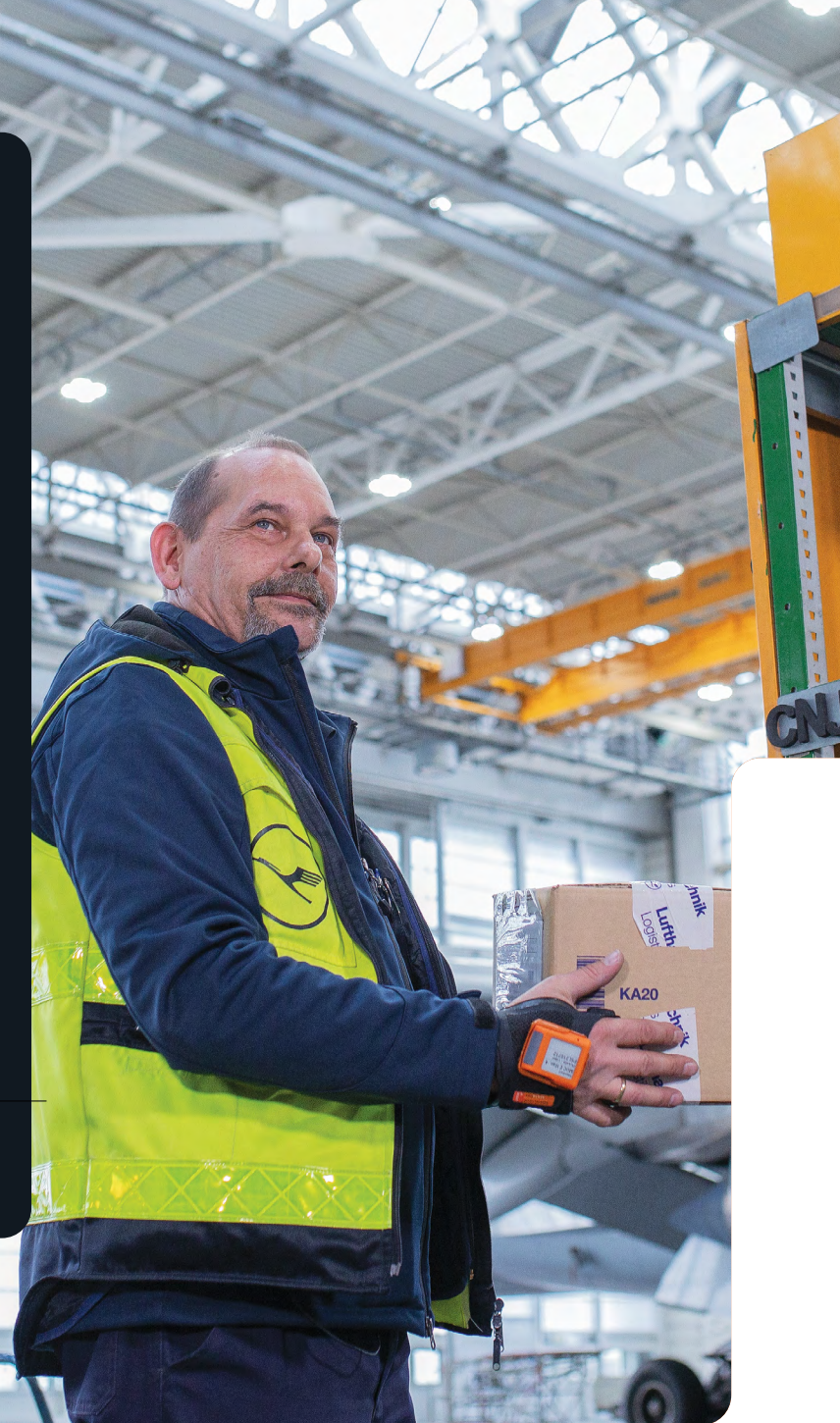
2 Enhancing Employee Satisfaction and Retention

3 Augmenting Worker Guidance and Workflows

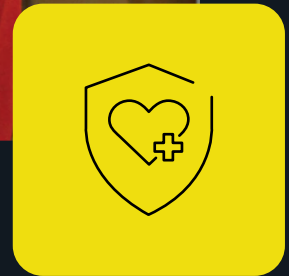
4 Reliable Scanning Accuracy and Quality

5 Improving Mobile Device Management

6 Optimizing Process and Layout



1



USE CASE

Increasing Worker Health and Safety

The Goal

Investments in the health and safety of our workers is the bedrock of productivity (and loyalty).

Challenge

Scanners are heavy, not ergonomically designed, and require awkward or repetitive motions to operate. They are also inaccurate, causing numerous instances of rescanning. These lead to fatigue and injuries on the job.

ProGlove Delivers

We build industrial wearable scanners that are the lightest, smallest, toughest and most accurate wireless barcode scanners in the world. Our patented technology provides unparalleled comfort and full dexterity for greater productivity. Our innovation is based in a thorough understanding of the physical effort required by your workforce, every day.

Our scanners are preferred by workers because our ergonomic design integrates with their natural motion, which puts safety first.

- Our wearable design accommodates hand-size variations as well as left / right preferences
- Ergonomic trigger position, field tested to ensure limited fatigue and full dexterity
- Stretchable velcro bands for easy fastening and maximum flexibility

ProGlove's scanners maintain speed and accuracy while documenting every step, all handsfree, providing a safer and more ergonomic working experience for your employees. Workflows are uninterrupted and workers get more done with our wearable technology.

2



USE CASE

Enhancing Employee Satisfaction and Retention

The Goal

Greater warehouse productivity requires a full complement of trained, engaged, and retained workers. Each warehouse wants to be known as a preferred workplace. Worker satisfaction becomes a strong lever retaining existing workers and hiring new workers.

Challenge

There are three components to attracting and maintaining a professional, experienced, stable workforce:

1. Pay
2. Benefits
3. Working environment

The warehouse floor can be transformed into a safe and satisfying advantage in hiring and retaining workers. Organizations that introduce ergonomically designed and accurate tools hold a “word of mouth” advantage in this highly competitive employment environment.

ProGlove Delivers

Scanners that workers understand, appreciate, and trust. These scanners also fuel their productivity and contribution. This is a significant component of an attractive work environment as workers are able to complete their assignments easier, quicker, and with fewer errors or re-scanning.

Employees appreciate the strength, ergonomic design, comfort, and capabilities of ProGlove scanners. These scanners integrate with their natural motion, which means less exertion and fewer injuries. Moreover, our devices can cover both scanning and validating with just one button - without the time and effort of having to pick up another device.

Additionally, ProGlove’s Insight software enables management to rebuild the physical environment (whether a station, a location, or company-wide) to localize ProGlove devices and implement more logical and efficient workflows.

3



USE CASE

Augmenting Worker Guidance and Workflows

The Goal

Warehouse workers get at least 5% more work done without an ounce more effort or a minute more time.

Challenge

Today, warehouse management must do more with less. Increasing productivity is a mandate. Optimizing employee workflows and productivity is a critical success factor in meeting KPIs, especially if staff levels may be leaner than desired.

ProGlove Delivers

ProGlove provides information from the shop floor - knowledge you may be missing, and that certainly impacts worker guidance and workflows. ProGlove Insight Analytics provides you extensive data to your scan performance and tracks your improvements.

Get continuous time and motion studies for a complete picture of your shop floor processes. Improve your understanding of the physical efforts of your workforce. See cycle times, walking times and group activities as clear process steps - identify and act on process gaps.

- **Optimize worker movements by minimizing physical activity per workstation**
- **Reallocate resources to distribute workloads evenly**
- **Identify and remove bottlenecks and document quality issues**

Avoid the extra work from a false pick rate by providing information directly to the hands of your workers in real-time with a OK / NOK signal. Enable your employees to work smarter by using the feedback options to problems and delays in production.

4



USE CASE

Reliable Scanning Accuracy and Quality



The Goal

- **100% accuracy**
 - **Increased process flow**
 - **Minimal rescans**
-

Challenge

Warehouses need scanners that perform reliably in both normal and challenging circumstances.

Marred barcodes, multiple barcodes, poor warehouse lighting, etc. lead to time-consuming rescans and supply chain errors.

ProGlove Delivers

Our scanners enable your team to work smarter and more productively by optimizing their scans while maintaining speed and accuracy. Eliminate picking errors with our instant feedback features to improve the quality of the process.

Workflows move faster and smarter with our devices. You can rely on ProGlove's error-free recording of product data.

- **Reduce false pick rates by providing feedback directly to the hands of the workers in realtime. The Worker Feedback function translates OK / NOK signal into visual, acoustic and haptic feedback.**
- **Every scan marks a workflow checkpoint. ProGlove Insight Analytics lets you evaluate the performance on your processes right away. Benchmark sequential job activities across any timeframe and process detail, so you can apply learnings across the company.**
- **Identify barcode quality based on barcode content, symbology and avg. scan time.**

Management can optimize technical performance by inserting scanning events into order fulfillment workflows to examine and remove bottlenecks. Our ProGlove Insight Analytics documents quality issues, outliers or other process documentation tasks.

5



USE CASE

Improving Mobile Device Management

The Goal

Make sure your entire ProGlove fleet of scanners are accounted for, available and ready for use.

Challenge

Expensive devices break, wear out, disappear, and batteries die.

That's why you need scanners that report location, condition, and battery status.

ProGlove Delivers

Know everything about every ProGlove device all the time. Effectively manage device lifecycle, including battery health, tracking of devices, and analyzing workflows. Know where all your devices are at any moment.

Minimize the risk of process disruptions with easy-to-follow advice on optimizing battery health, more efficient configurations, etc.. Use enhanced device settings in the configuration to keep your devices in top shape, while updating your device fleet with the newest firmware and configurations with zero-touch.

- **Maximize availability and connectivity with all meta data in one place**
- **Identify active, idle, out-of-service, misplaced and lost devices**
- **Perform remote configurations and predictive maintenance**

Understand your ProGlove assets across sites, by use-case, or by station. Unify views and shift devices if needed. Build out zones in your physical environment to localize your devices and compare process performance. Keep an overview of active, idle or out-of-operation devices - and identify outliers.

6



USE CASE

Optimize Process and Layout



The Goal

Greater productivity from more efficient workflows, processes and warehouse layout.

Challenge

Warehouses are laid out to maximize space, not process flow.

“With the right data, I know I could design the layout more efficiently and optimize how my people pick so they walk less and can complete their work faster and safer.” - Warehouse Manager (customer)

ProGlove Delivers

ProGlove gives you access to critical shop floor data that will help you to optimize layout and worker flow. We give you a faster, simpler way to access worker-based data without complex WMS programming.

Close the gaps in your shop floor knowledge through a feed of narrated insights, continuously updated and tailored to you. You will gain insights into spatial awareness, process layout, and time & motion studies to understand how the shop environment can be optimized to improve how workers move around.

- **Provide a seamless start to a work shift with fast, intuitive connection between the wearable scanner and the host device with a simple barcode scan.**
- **Enable your employees to work smarter by using the feedback options to surface edge cases in production.**
- **Mass charging stations efficiently charge any of your ProGlove scanners at one time, in one place.**

Optimize your shop floor to minimize worker exertion, improve safety, and maximize productivity. Understand your ProGlove assets across sites, use-cases, or stations. Unify views and shift devices if needed. Maintain speed and accuracy while documenting every step, all handsfree, providing a safer, more ergonomic working experience for your employees.

PROGLOVE CASE STUDIES

Proof points on driving productivity





“We’re constantly exploring new technology that enhances the accuracy, efficiency and safety of our operations. Where we deploy wearable scanners, we can increase productivity up to 10% depending on the application, while delivering a better experience for our employees.”

RICHARD CAWSTON
President – Europe, GXO

Challenge

As the world’s largest pure-play contract logistics provider, GXO partners with the world’s leading blue-chip customers to solve complex logistics challenges with technologically advanced supply chain solutions, at scale and with speed.

Each of their fulfillment centers manages thousands of different products SKUs during peak seasonality. They also wanted a tool that seamlessly integrated with their warehouse management system and digital tools used in the order preparation process.

Solution

ProGlove barcode scanners helped GXO fulfilling their goal of leveraging ergonomics for workers and reducing friction in workflows, while meeting the escalating demands of e-commerce.

Result

GXO saved 6 seconds per pick, and gained 10% in productivity.



“Thanks to the Bulky Goods 2.0 and ProGlove projects we are no longer tied to stationary processing stations but can process bulky goods anywhere in the hall. “

WERNER KUNERT

Deputy Head of Warehouse, DHL

Challenge

DHL is one of the world's most important logistic company, providing parcel and international express service, freight transport, and supply chain management services, as well as e-commerce logistics solutions.

The booming e-commerce business has caused a steep increase in shipment volumes. DHL needed to address this increase without reworking their shop floor and their working areas. In particular, processing bulky goods at the dedicated terminal was a challenge (DHL called this Bulky Goods 2.0).

Solution

DHL equipped its employees with ProGlove scanners. Four components were combined: smartphone for full operator mobility, app for interface with the management system, ProGlove wearable scanner and the mobile printer for printing barcodes.

Result

The Bulky Goods area is where non-machine capable shipments are processed. By making the entire process mobile, and no longer tied to a stationary terminal, DHL workers now spend more time processing packages than walking the aisles.

Lufthansa Technik



Lufthansa Technik
Logistik Services

“The potential of the scanner with display is especially important in the processes where we must react quickly and flexibly.”

ALEXANDER TESCH

Innovation Manager, Lufthansa Technik
Logistik Services

Challenge

Lufthansa Technik Logistik Services (LTLS) is the leading provider of aircraft maintenance, repair, overhaul and modification services for civil aircrafts.

Almost 65,000 different items are stored at Lufthansa Technik's Munich site. Taking too long to prepare a shipment or including the wrong products leads to costly delays.

Solution

Introducing MARK Display provided Lufthansa's workers with clear instructions about which parts to prepare and a reliable scanner that could easily capture photos, time stamps, and more than just barcodes.

Result

- Significant reduction in error rates
- Worker acceptance of digital processes

Would you like to know how partnering with ProGlove can bring substantial productivity gains?

Please contact us. We'll put you in touch with one of our experts, and schedule your virtual demonstration.

contact@proglove.de

www.proglove.com

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