Unlock Peak Productivity

Optimize your Warehouse Efficiency

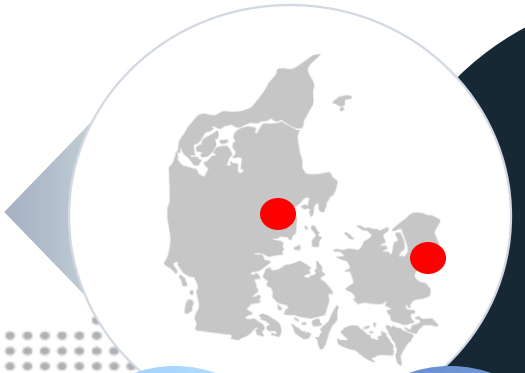
tecsys™

Peter Siggaard-Andersen
Head of Supply Chain Excellence

PROGLOVE

Mats Fager
Territory Account Manager

Global Reach and Financial Strength of Tecsys



50
Employees In Denmark

1,000+
Customers

$164M
Revenue*

40 years
In Business

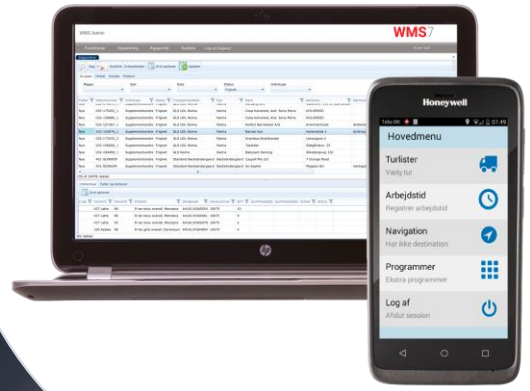
763
Employees**

* Last twelve months, October 31, 2023
** At October 31, 2023

PROGLOVE tecsys™

Tecsys Denmark

Software



- OMS
- WMS
- TMS
- LPS
- PM5

Hardware

- Handheld computers
- Printers
- Barcode equipment/RFID
- MDM/EMM
- Consulting services

IT-Operations

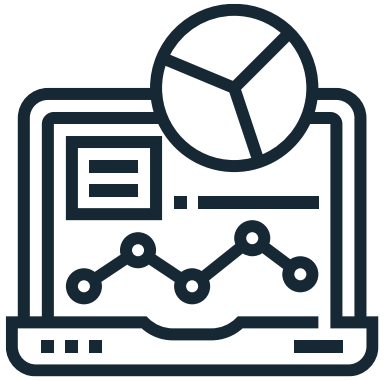
- Hosting
- IT-Security
- Infrastructure & WiFi
- Consulting services
- Device Management

One supplier

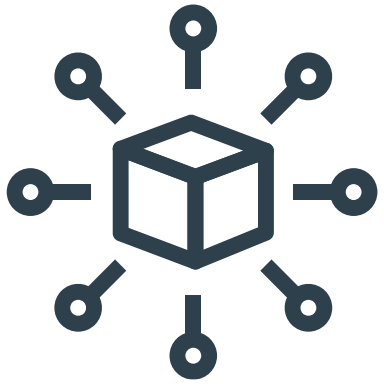
PROGLOVE tecsys™

Software

Order Management



WMS



TMS

Analytics/Reports

The fulfillment platform

PROGLOVE tecsys™

Tecsys WMS

Inbound Logistics

- Real time transactions using any Mobile device
- Receipt of goods with dynamic slotting
- Administration of returned goods
- Traceability (lot/batch, expiration dates and serial number)
- Goods weights and measures
- Quality control

Outbound Logistics

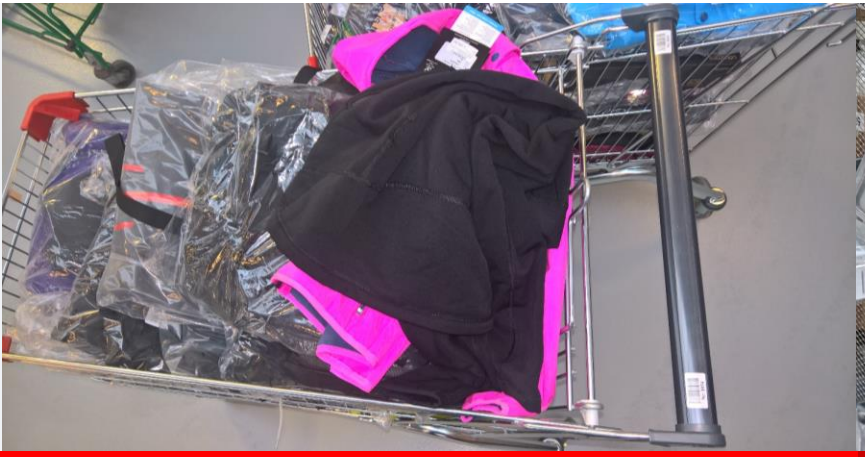
- Order handling and planning of picking/packing in multiple zones
- Single pick, multi pick, batch pick, case pick and pallet pick
- FIFO/FEFO/LIFO
- Consolidation and packing
- Value added services: Gift wrapping, gift message
- Labels, delivery note and electronic data exchange (EDI)
- Interface to carrier label brokers

Inventory Control

- Dashboard with KPI overview
- Real-time overview and control of multiple warehouses, buildings and zones
- Inventory overview, counting and replenishment
- Containerization
- Quarantine function and expiration management
- 3PL module (Multiple owners/multiple warehouses)

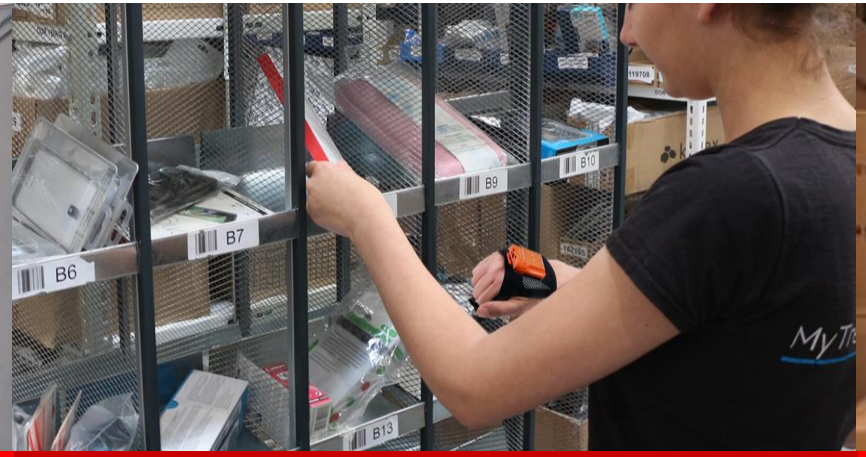
PROGLOVE tecsys

Walking as little as possible to get the job done



BATCH

- Batch-Pick of small orders
- Pick into a shopping trolley
- 30-200+ sales orders in one picking round



MULTI

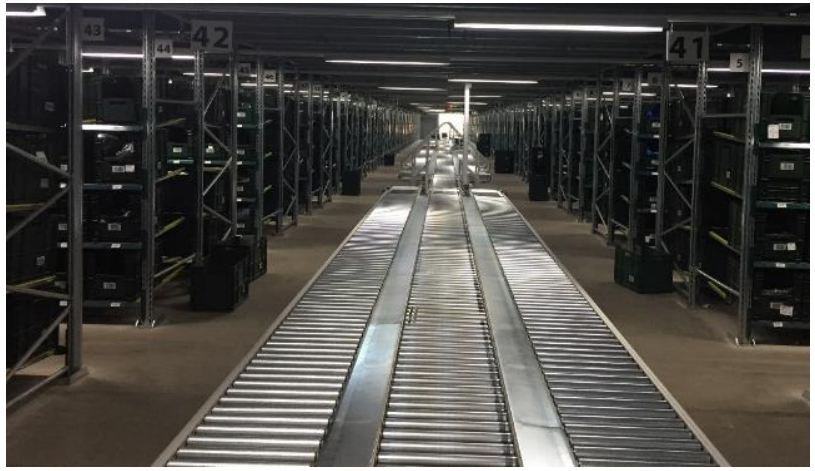
- Multi-Pick of 10 to 40+ sales orders in one picking round
- Multiple types of pick trolleys

SINGLE

- Larger orders
- Pallet picking

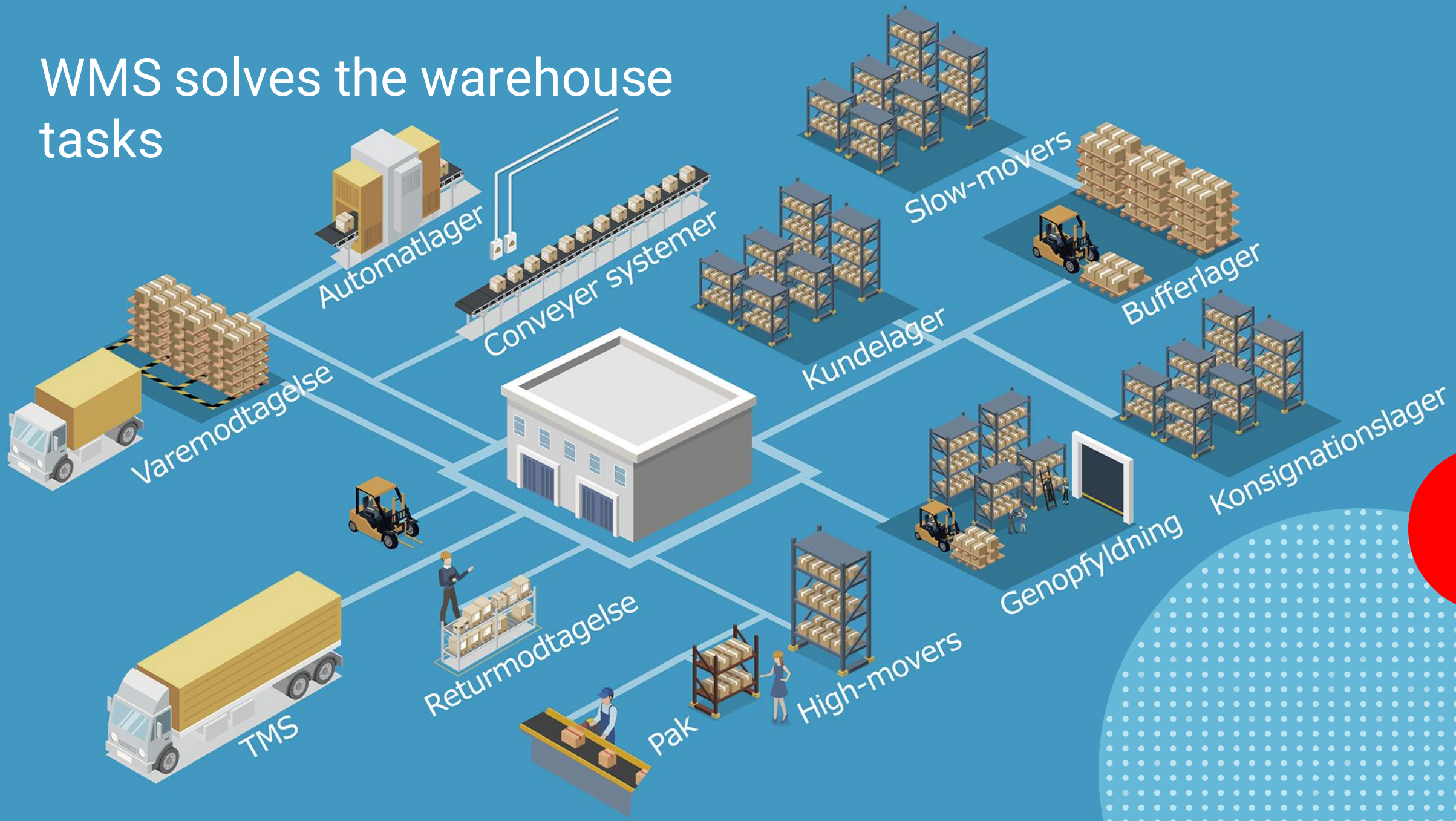
PROGLOVE tecsys™

Interface for warehouse automation



PROGLOVE tecsys™

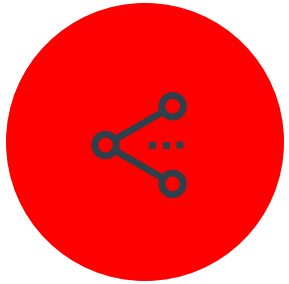
WMS solves the warehouse tasks



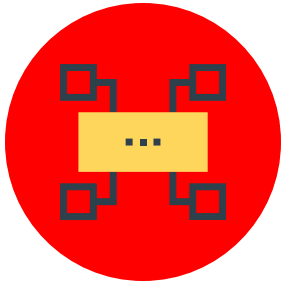
WMS focus areas

e-commerce
Multi / Batch pick
Styles & variants
Return orders

Retail
Click & Collect
Batch/lot numbers
Consignment stock
Move between stores
FEFO – Bets before date



Whole sellers
Serial numbers
Multiple barcodes per product
Single sale products



Distribution
Traceability
TMS integration
Route planning before picking
POD – documentation for delivery

3 PL
Multiple Owners
Space usage
Number of operations

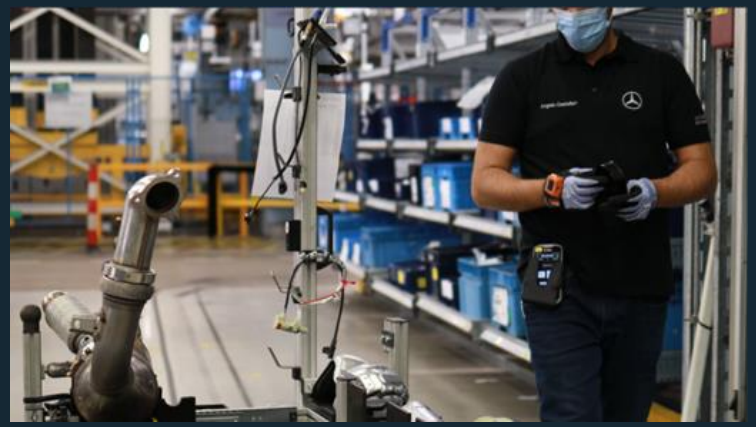
PROGLOVE tecsys™

MARK Display

- Save up to 6 seconds per scan
- 7.5K scans per battery charge / 2 hour charge time
- 33% fewer errors with worker guidance & haptic, acoustic, and optic feedback
- 1.5” e-ink display with customizable screen orientation & fully configurable layouts
- 2 scan ranges to optimize performance for your operations (10 - 90 cm | 30 – 150 cm)

PROGLOVE tecsys™

Use Cases



- Picking
- Sorting
- Inventory Management
- Sequencing
- Assembly

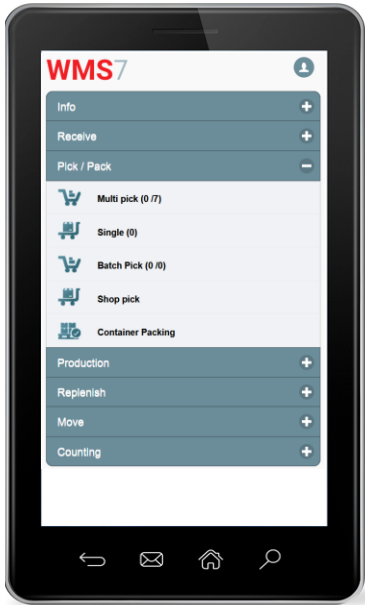
PROGLOVE tecsys

Functionality

- Picking methods
  - Multi pick
  - Batch pick
  - Single pick
- Pack
  - PACK
- Goods reception
  - Receive with purchase order
  - Receive without purchase order

PROGLOVE tecsys™

Multipick with the MARK Display



Picking job is started with HHT

Picking cart is scanned with HHT

MARK Display shows:
- Location
- Item Number
- Quanitity
- Scan EAN or location

MARK Display shows:
- Quantity
- Space on picking cart
- SCAN space on picking cart
- Confirms default quanity
- Changes to be made on HHT

Error correction to be done on HHT

PROGLOVE tecsys

Optimizing warehouse operations

Optimization	Parameters	TIME	DKK
Savings in seconds per pick	2		
Number of pick lines per day	5.000		
Conversion to hours saved per day		2,78	556
Number of working days per year	220	612	122.320
Hourly wage	200		

- Simplified workflows
- Hands-free in 95%+ of total workflow

PROGLOVE tecsys

Why WMS?

100 percent focus on warehouse management

Handle and optimizes all warehouse processes	HTML5 user interface	Intuitive Requires only 10 minutes of training	Customer portal
Standard interface XML or API/JSON	Picking-algorithm Saving 30% transport time	Dashboard	Standard system Easy to deploy

PROGLOVE tecsys™

Measurable Results

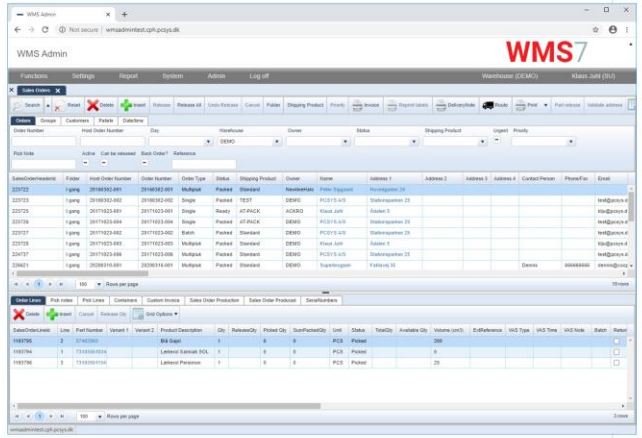
30%+	25%+	60%+	20%	100%	35 days
Increased efficiency	Reduced labor cost	Increased order accuracy	Reduced inventory	Supply chain visibility	Rapid deployment

Streamline fulfillment while improving the customer experience

PROGLOVE tecsys™

Demo

OMNI WMS



Peter Siggaard-Andersen
Head of Supply Chain Excellence
Peter.siggaard@tecsys.com
+45 88 33 57 35

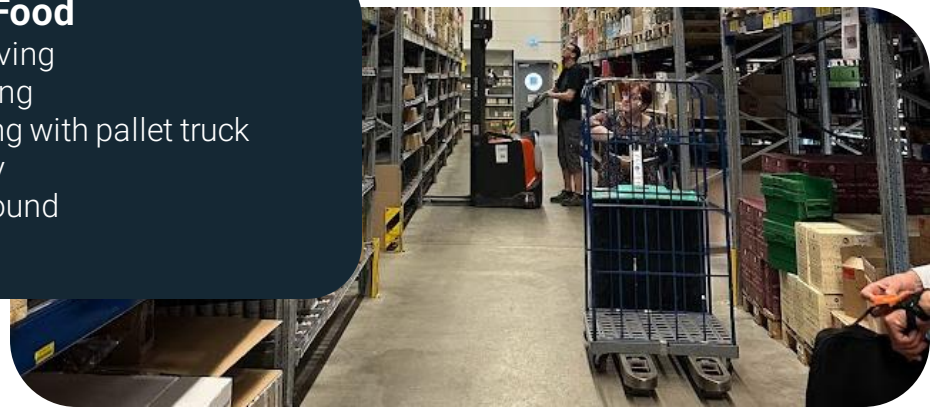
ProGlove Portfolio

Battery life	4,000 scans	8,000 scans	12,000 scans	12,000 scans	7,500 scans
Scan range	10cm-70cm / 4“ – 27“	10 cm - 90 cm / 4" – 35 " 10 cm - 250 cm / 4" - 98 "	10cm-90cm / 4“ – 35“ 30cm-150cm / 12“ – 59“	10cm-600cm / 4“ – 2’	10cm-90cm / 4“ – 35“ 30cm-150cm / 12“ – 59“
IP	43	54	54	65	54

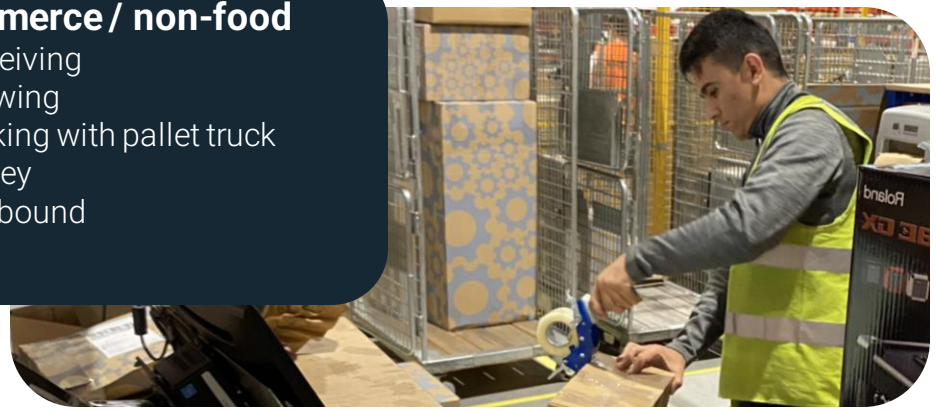
PROGLOVE tecsys™

Meet the MARK Basic multi range

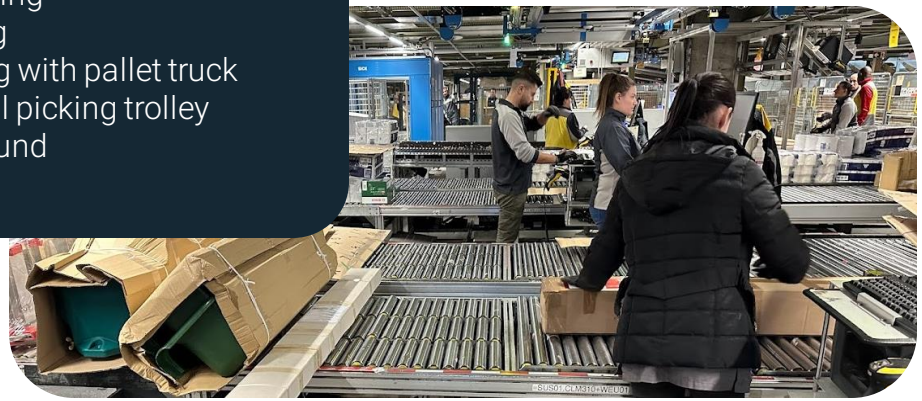
Retail / Food
- Receiving
- Stowing
- Picking with pallet truck trolley
- Outbound



E-commerce / non-food
- Receiving
- Stowing
- Picking with pallet truck trolley
- Outbound



Logistics & 3PL
- Receiving
- Sorting
- Picking with pallet truck vertical picking trolley
- Outbound

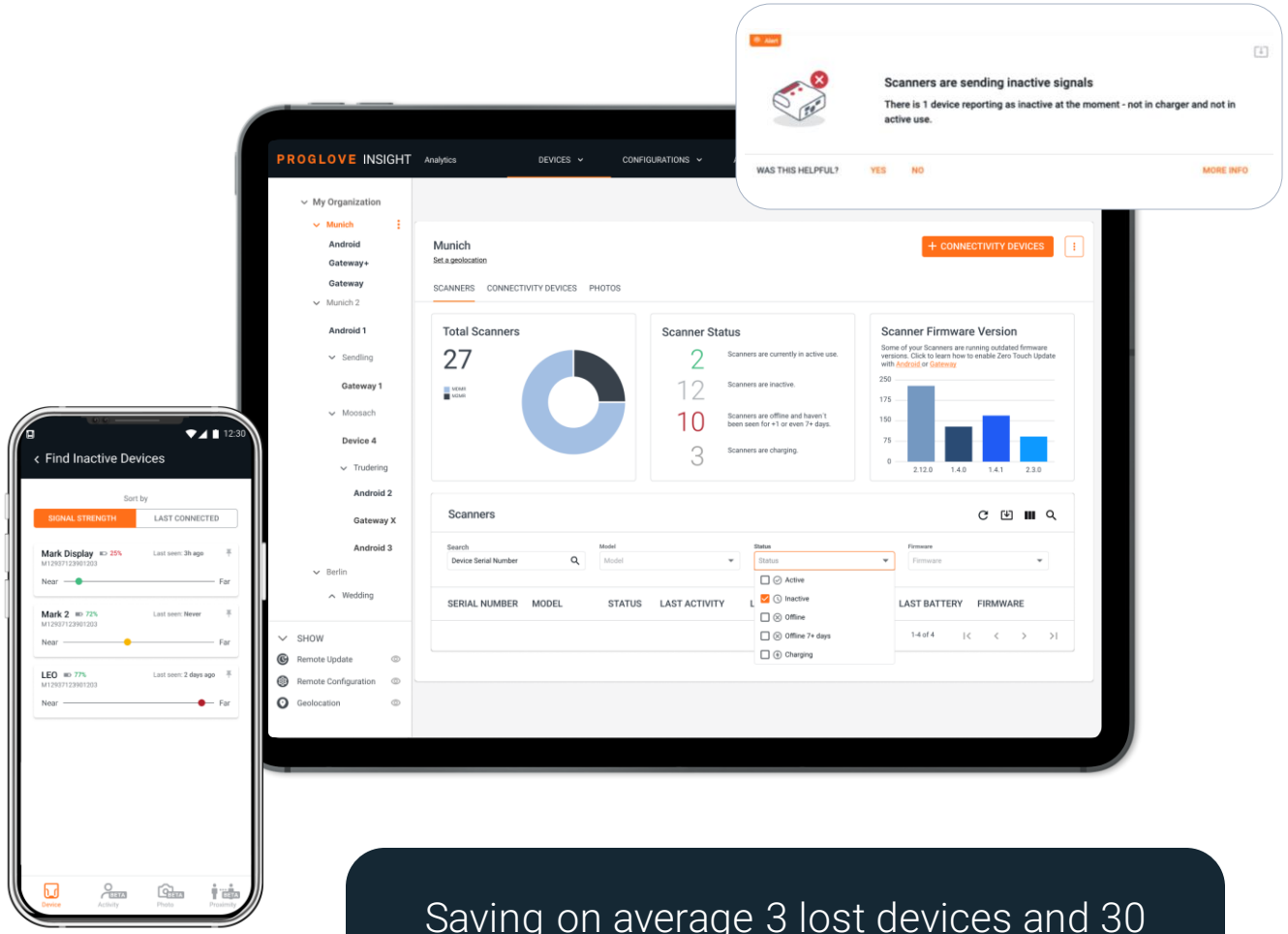


Manufacturing Intralogistics & Aftersales
- Picking with pallet truck vertical picker
- Milk run
- Staging of materials
- Sequencing

PROGLOVE tecsys™

INSIGHT Visibility

- Track scanners across shop floors using signals sent through Gateway or INSIGHT mobile to INSIGHT.
- Alert co-workers nearby to misplaced scanners using audio-visual-haptic feedback. Scanners will begin beeping and blinking when out-of-range or inactive.
- Get instant notifications as soon as a device is misplaced
- Find misplaced scanners using Insight Mobile (Android) to track their proximity across your shop floor (proximity distance asset-tracking).



Saving on average 3 lost devices and 30 hours of searching effort (per 100 devices per year)

PROGLOVE tecsys™

Advanced Scanning

Multiscan

- Press & hold the button of the wearable
- All barcodes within the field of view scanned
- Barcodes are filtered / sorted based on pre-defined rules & sent to your WMS (2-5 barcodes)

Continuous Scan

- Press & hold the button of the wearable
- All barcodes within the field of view scanned
- Barcodes are processed and sent to your WMS without logic

PROGLOVE tecsys™

Multiscan:

More Ergonomic
- Avoid associates physical movements.
- Less Button Presses during day-to-day.

Associate

Efficiency & Speed
- Reduce actual scans from the effort.
- Improve process step speed heavily based on # of combined scans. (Xx)

Process Owner

Worker Guidance
- Less training because the associate can't scan the wrong barcode.
- Less guidance during day-to-day on complex labels.

Process Owner

Improved Process Quality
- Avoid wrong scanned barcodes slowing down process by ignoring them.

Process Owner

Plug & Play Integration
- Filter, Rules and Sorting Algorithm allow for an integration without any system adaptions!

Integrator

Continuous Scanning:

More Ergonomic
- Avoid associates physical movements.
- Less Button Presses during day-to-day.

Associate

Efficiency & Speed
- Scan all Barcodes at once in a single movement / flow.

Process Owner

Less Applicable

Plug & Play Integration
- Process and transmit large number of barcodes at once, with no particular order, without any system adaptation.

Integrator

*Not all values can be materialised in all use-cases/processes. Pick to match your client needs.

PROGLOVE tecsys™

Key Take-aways

- Tecsys can provide you a complete solution with the necessary software, hardware and IT-operations OR any component you may need on its own.
- The MARK Display integrates directly with your existing WMS or the Tecsys OMNI™ WMS for even better performance and efficiency.
- With any of the ProGlove devices, you can save 2-6 seconds per scan resulting in significant annual cost savings.

PROGLOVE tecsys™

Questions?

Peter Siggaard-Andersen
Head of Supply Chain Excellence
Peter.siggaard@tecsys.com
+45 88 33 57 35

Mats Fager
Territory Account Manager
Mats.fager@proglove.de
+46 70 285 89 20