



Digital order picking at Fendt: Smart Watches for greater speed, precision and ergonomics

NUMBERS

10.000

Picks per day

AREA OF APPLICATION

The Smart Watches are used for order picking in the company's own "supermarket".

USE CASE

Fendt relies on digital worker guidance with the INDUTRAX DIGITALPICKER and the NIMMSTA Smart Watch for order picking. The aim was to replace paper-based processes and guide employees in the supermarket area efficiently and error-free through up to 250 picks per shopping basket. The ergonomic Smart Watch provides visual and acoustic feedback with every scan, keeps hands free and enables a seamless, digital material flow. The result: shorter throughput times, reduced error rates and noticeably less stress for employees – a scalable solution with a future.

CUSTOMER



INDUSTRY

Agricultural engineering /
Agricultural industry

RESULTS

- Greater efficiency: Significantly faster picking processes thanks to digital worker guidance with the NIMMSTA Smart Watch.
- Error reduction: Visual and acoustic feedback reduces incorrect entries and ensures material quality.
- Employee relief: Free hands, simple operation and less manual work increase ergonomics and satisfaction.

PARNTER



About Fendt

Fendt is the high-tech brand within the AGCO Group and is known for innovative agricultural technology that meets the highest standards of quality, efficiency and sustainability. Around 100 tractors in a wide variety of configurations are produced every day at the main site in Marktoberdorf – individually assembled from over 1,475 customer options. This enormous variety places the highest demands on logistics: Each tractor is supplied with a precisely coordinated shopping basket containing up to 250 specific parts. In order not to interrupt the assembly flow, these parts must be available on the assembly line at exactly the right time, without any errors.

Challenge

Until now, logistics employees in the so-called super-market worked with paper-based processes: printed lists, manual shelf labelling and visual comparisons of material numbers caused unnecessary search times, double checks and a high susceptibility to errors, especially with similar part numbers or changing storage locations. The aim was to significantly reduce this effort through digital processes and at the same time relieve the burden on employees

through intuitive worker guidance.

Process digitisation with NIMMSTA Smart Watches

To achieve these goals, Fendt teamed up with INDUTRAX to introduce DIGITALPICKER as a digital worker guidance system. The solution digitises the entire picking process and forms the basis for efficient, paperless material provision in the supermarket sector. The solution was combined with the NIMMSTA Smart Watch to ensure consistent, error-free implementation of the picking process. The smart watches guide logistics employees step by step through the picking process, visually via the touch display and simultaneously with acoustic and visual validation at each scan. Employees have both hands free, which is an ergonomic advantage, especially when handling large and heavy parts.

The advantages in use

- System-supported worker guidance: The next storage location, item number and pick quantity are shown directly on the Smart Watch display.
- Direct validation: After scanning, the Smart Watch provides immediate feedback: green for correct, red for deviation
- Both hands free: The scanner is ergonomically positioned on the back of the hand and is ideal for large or heavy items
- Time savings: Media breaks, such as handling paper lists or manually checking items, are completely eliminated
- The intuitive operation of the Smart Watch allows even new employees to get started quickly, without the need for lengthy training
- At the same time, the entire process is seamlessly documented digitally, creating additional transparency and security.

Results

With the introduction of smart watches, Fendt was able to significantly increase picking efficiency while reducing the error rate. Throughput times were reduced, bottlenecks alleviated and process quality significantly improved. The full potential of the solution is particularly evident in the supermarket sector: faster, more secure, paperless.

Outlook

Following its successful deployment in the area of parts provision, further applications are already under discussion. The modular architecture of the NIMMSTA solution makes it possible to seamlessly expand future processes – whether in goods receipt, assembly supply or inventory.



„Die Kombination von DIGITALPICKER und der NIMMSTA Smart Watch ermöglicht es uns, den Materialfluss digital und fehlerfrei abzuwickeln, was nicht nur die Materialflüsse stabilisiert, sondern auch die Arbeitsbelastung für unsere Mitarbeiter deutlich reduziert.“

Florian Demmler, Head of Logistics, Tractor Plant at Fendt



About NIMMSTA

NIMMSTA offers a novel intralogistics ecosystem consisting of a Smart Watch, a pick-by-light system and, at its heart, the Productivity Cloud. The solution enables 65% more efficient processes, a zero error rate and 100% transparency for workers. Processes with NIMMSTA can be implemented within a day, without any backend changes. 'Made in Germany'. Further information is available at www.nimmsta.com.

NIMMSTA GmbH
Moosacherstraße 73
80809 München
sales@nimmsta.com