

*abat*



## Data glasses

New dimensions in warehouse management

## Smart Glasses with SAP connection optimise intralogistics

In warehouse logistics, order picking needs to be error free and orders need to be delivered on time – at the lowest possible cost. Mobile computer systems improve the performance of order picking: barcode scanners (Pick-by-Scan) as well as headsets (Pick-by-Voice) are used. They record stock levels and compile orders.

The use of wearables, where both worlds are combined, is now opening up a completely new dimension: orders are now visualised directly in the operative's line of sight and booked seamlessly into SAP in real time (augmented reality) using the xPick data glasses solution from Ubimax. This increases transparency, accuracy and speed but also the flexibility of order picking. It also reduces the daily workload of warehouse operatives. It increased the efficiency of picking by 25 percent in a pilot project at DHL.

abat, a supplier of SAP logistics and automotive solutions, has integrated the data glasses-based Pick-by-Vision solution and the xPick Developer Ubimax into SAP: specialists from both companies have programmed an interface to the SAP Extended Warehouse Management (EWM) system. Well-known xPick customers include Daimler, DHL and the Cordes & Graefe Group.



### How order picking works with data glasses

- Order pickers wear the xPick data glasses solution whilst working in the warehouse and picking orders and therefore have both hands free so they can move around freely.
- Information and stock orders are transmitted in real time from the SAP Extended Warehouse Management to the system and displayed on the data glasses: employees can therefore see at a glance which quantities from which container need to be picked.
- The Smart Glasses solution highlights the correct storage bays visually and can also show images of the article – order pickers find the individual articles quicker and can process orders more efficiently.

- The built-in voice control allows operatives to communicate directly with the data glasses. For example, they can navigate between individual orders and request new orders.
- In addition, the speech recognition function allows them to control the built-in camera, for example, to scan the barcodes of goods with the data glasses.
- All goods movements are booked into SAP EWM in real time.
- The user interface is intuitive – for example, new warehouse operatives can be trained much quicker.



Photo: © Ubimax GmbH

## Data glasses with SAP EWM connection: applications

Pick-by-Vision allows for completely new logistics processes and makes order picking quicker than ever before.

### ■ Goods inwards

Key information is displayed via the data glasses as with navigation systems: Smart Glasses display, for example, despatch advice, order data and inbound storage routes. If any information is missing, it can be requested on an ad hoc basis via the voice control on the data glasses.

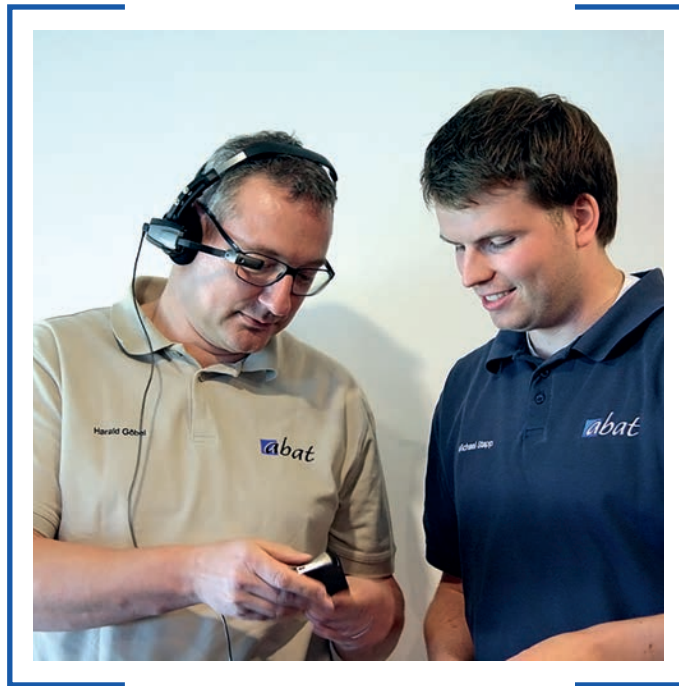
### ■ Goods outwards

Order pickers can find the required goods in no time at all: the data glasses point the way to storage locations, show images of the articles and compare the article numbers of the picked goods with the order data.

### ■ Internal warehouse processes

xPick can also be used to optimize processes, such as stocktaking and sorting goods. xPick therefore allows automatic booking into SAP EWM.

The data glasses can also be used in other areas of a company, for example, in production, quality assurance as well as service and maintenance.



abat is an international provider of SAP consulting, development and the production control and management system PLUS, specialising in the logistics, automotive and discrete production sectors. From the introduction and development of additional applications through to their integration in heterogeneous system landscapes, abat implements complete SAP solutions worldwide, for example in procurement, distribution and production logistics. abat achieves a turnover of over € 48 million a year with more than 500 employees in Germany, the USA, Mexico and Belarus.

Ubimax GmbH is a leading supplier of industrial wearable computing solutions for organisations and companies of all sizes. The innovative Ubimax products improve the speed, quality and flexibility of users' business processes through the use of wearable computing technologies, such as Google Glass or Vuzix M100. Ubimax is Google's only certified partner in Germany and is also a primary partner of other market giants, such as Vuzix, Epson, Meta, Motorola or Brother.

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