



# PICK/PUT-TO-LIGHT SYSTEMS FROM BOWE IQ

- **SPEEDS UP PICKING/SORTING PROCESS**
- **HUGE REDUCTION IN ERROR RATES**
- **REQUIRES MINIMAL TRAINING**
- **REDUCED LABOUR COSTS**
- **FLEXIBLE AND EASILY SCALABLE**
- **COMPLETELY PAPERLESS**

Fast, accurate and user-friendly – the Pick-to-Light and Put-to-Light (PTL) systems from BOWE IQ will completely transform any picking or sorting process.

Using lights and digital displays installed on shelving units, bins, or racks, workers are guided visually in the selection of items from storage locations (Pick-to-Light) or in the placing of items into the correct bin, tote or shelf, typically for order consolidation or packing (Put-to-Light).

Popular applications include e-commerce fulfilment, retail and grocery distribution, and parcel and logistics sorting. PTL systems can also prove invaluable in production by speeding up manufacturing and assembly operations and preventing serious errors.

Behind the scenes, our BOWE IQ software continually orchestrates and optimises the workflow, ensuring efficiency, accuracy, and seamless communication between worker and Warehouse Management System (WMS) or Enterprise Resource Planning (ERP) system.

# PICK-TO-LIGHT

## UNPICKED

1. When a picking order is received from the Warehouse Management System (WMS), it sends the picking information to the Pick-to-Light system.
2. Lights next to the bins or shelves light up, guiding the worker to the exact location of each item in the order. A different coloured light can be assigned to each worker, enabling multiple orders to be picked simultaneously.
3. Once the item has been picked, the worker confirms the pick by pressing a button or scanning a barcode, and the light turns off. This process can be made even quicker by adding a sensor that automatically detects the removal of the item.
4. The operator moves onto the next light until the order is complete.



IN CONJUNCTION WITH THE LIGHTS, ELECTRONIC DISPLAYS CAN PROVIDE ADDITIONAL INFORMATION, SUCH AS THE QUANTITY OF ITEMS TO PICK OR ANY SPECIAL INSTRUCTIONS. BUILT WITH EXCEPTIONAL DURABILITY AND A SNAP-ON DESIGN, THESE DISPLAYS CAN BE INSTALLED AND EXCHANGED QUICKLY AND EFFORTLESSLY, WITHOUT THE NEED FOR TOOLS.

# PUT-TO-LIGHT

## UNPACKED

A Put-to-Light system is very similar but used for sorting and distributing rather than picking.

1. On arrival from picking at a central sorting area, each item is scanned. Lights on bins, totes, or shelves light up to show where the items need to be placed. Each bin usually corresponds to a different customer order, delivery destination, or product batch.
2. Like with Pick-to-Light, the worker confirms that the item has been placed in the correct bin by pressing a button or scanning a barcode. Alternatively, this is detected by an inbuilt sensor. The light turns off.
3. The process repeats for the next item or batch of items, resulting in rapid and accurate sorting.

## PUTWALLS

In a Putwall system, products are picked in batches and transported – on mobile picking carts or by conveyor, for example – to the Putwall where they are scanned. Lights indicate into which cubbies the items need to be dropped.

Different lights, often placed on the other side of the Putwall, indicate when a cubby is complete and ready for packing or collection. Displays can also include information on box size, order/customer number, or any specific customer requirements.

# BOWE IQ:

## A ONE-STOP-SHOP APPROACH TO PTL TECHNOLOGY

With decades of experience creating IoT solutions, BOWE IQ is able to supply both hardware and software components in order to fulfil all of your Pick/Put-to Light (PTL) needs.

Some examples of the hardware available from BOWE IQ include:

- Trolleys complete with shelves and plug sockets
- Electronic displays (see opposite page)
- Sensors to detect when an item is put into or taken out of a bin or tote box
- Handheld and wearable scanners
- RFID readers
- Our DataStations for the weighing, scanning and systematic logging of parcels onto a PTL system
- Label printers
- Computers



## DRIVEN BY BOWE IQ SOFTWARE

On the software front, customers can opt for a BOWE IQ application which serves as the backbone of the PTL process. Real-time order data and inventory information is received from the WMS or ERP, enabling the software to identify items and locations and to control the PTL lights and displays. The software can also assign and prioritise tasks, sequencing them to optimise routes and immediately detecting discrepancies. There is even scope to program it to make automated adjustments to replenish stock or reroute tasks to avoid bottlenecks.





## MOST COMMON USES

Pick/Put-to-Light Technology is ideal for environments with high volumes of SKUs (Stock Keeping Units), complex sorting requirements, or dynamic order fulfilment needs. It plays an essential role in operations where speed and accuracy are critical to maintaining efficiency and remaining competitive, for example:

- E-commerce fulfilment
- Retail and grocery distribution
- Omnichannel retail distribution
- Parcel and logistics sorting
- Automotive parts assembly
- Other types of manufacturing and assembly
- Pharmaceutical and healthcare distribution
- Third-Party Logistics (3PL) distribution

## FLEXIBLE AND SCALABLE

Customers can choose to purchase any of our hardware components as standalone products right up to commissioning a complete BOWE IQ PTL system with customised software. It is also possible to start with a small-scale installation and extend as needs evolve, e.g. adding RFID readers or connecting up conveyors. Similarly, due to the flexible design of our racks, shelves, and displays, changing the layout of shelf displays or even the size of picking locations and sorting areas is a straightforward task.

➤ Please contact us to discuss your requirements!

## CONTACT US TO DISCUSS:

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