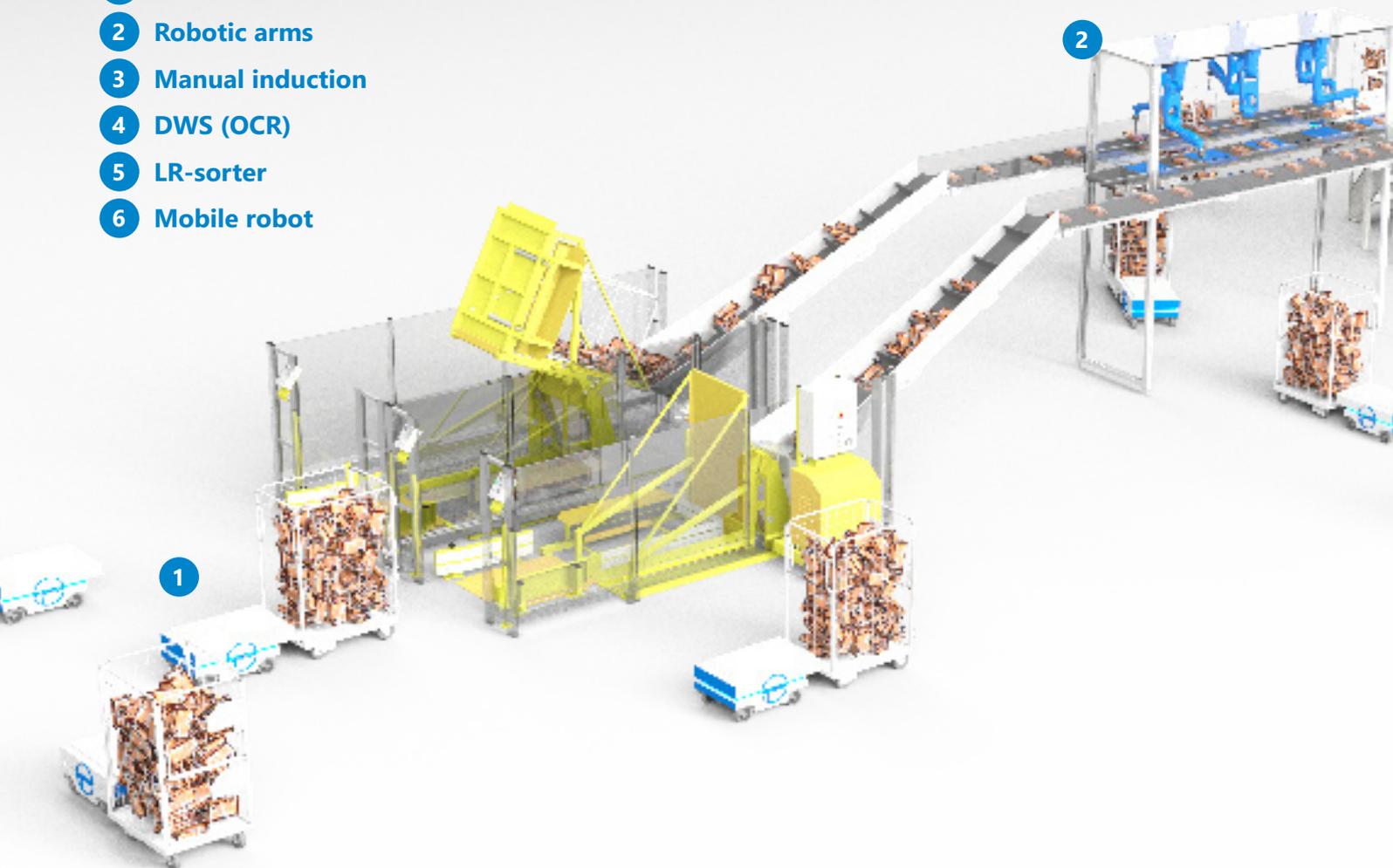




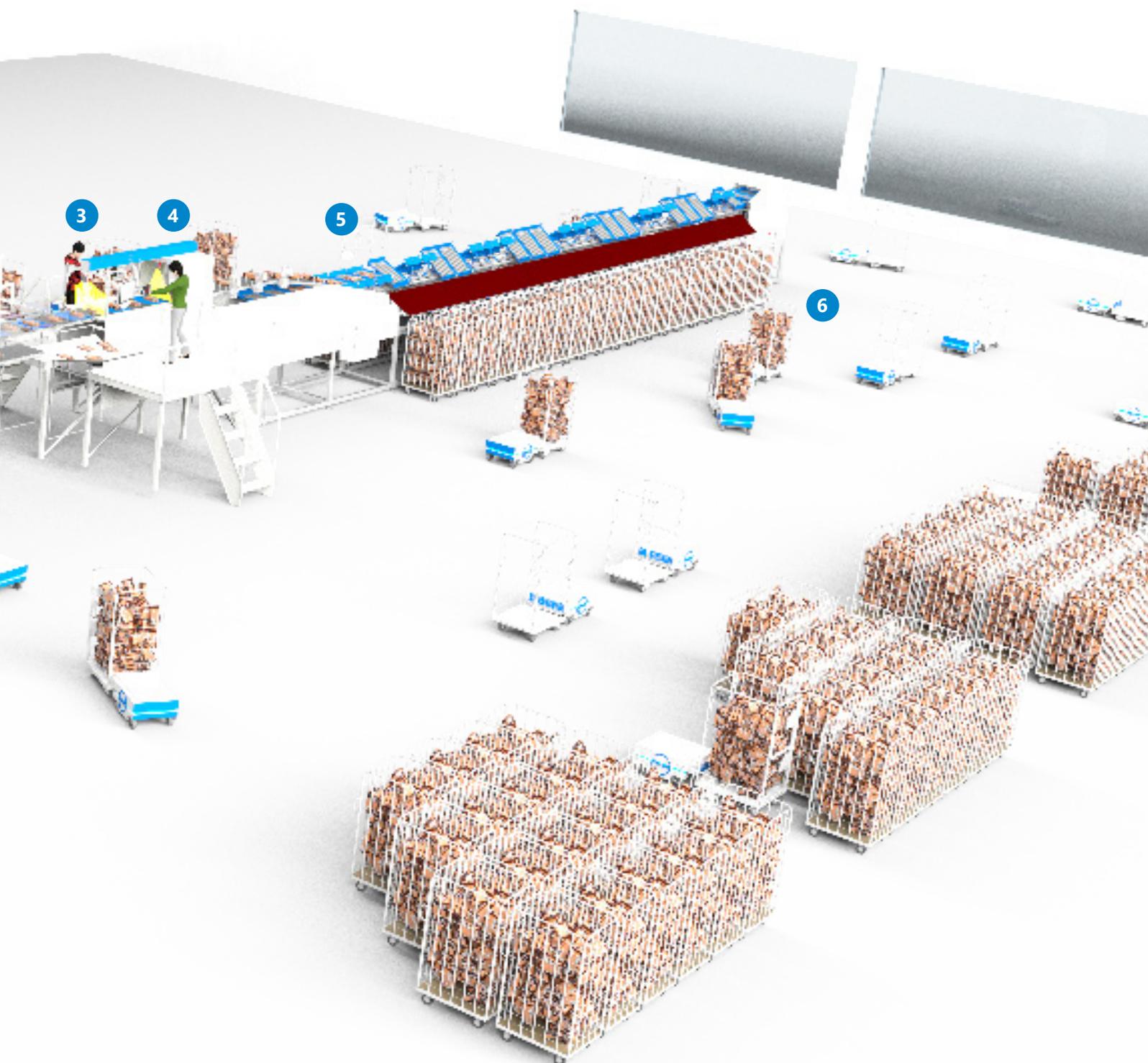
WHAT
WILL YOUR
WAREHOUSE
LOOK LIKE
NEXT YEAR?



- 1 Mobile robot
- 2 Robotic arms
- 3 Manual induction
- 4 DWS (OCR)
- 5 LR-sorter
- 6 Mobile robot



WAREHOUSE OF THE **FUTURE**





Automation and collaboration

The explosive growth in e-commerce and CEP is nothing new. Combined with a continuing labor shortage it is becoming more challenging to meet the increasing demand in these markets. Complete or partial automation offers the tools to face the growth while maintaining profitability.

The following years an increase in robotics is inevitable. To provide some insight in the possibilities we created an automated process for the warehouse of the future.

1. Mobile robot

These robots pick up incoming roll containers and take them to an automated tipper. From there on they are emptied onto a inclining paddle belt which moves the items towards the sorter.

2. Robotic arms

Items are identified by a vision camera and deep learning software. The robotic arms pick the items and put them on the sorter infeed belt. Items that are hard to pick will end up at the manual induction platform.

3. Manual induction

Items can be inducted manually as well by two operators. Together with the robotic arms they are able to reach the full sorter capacity of 8.000 items per hour.

4. Dimensioning, weighing and scanning

The DWS measures the volume and weight of items and identifies them by using an (OCR) vision camera. This DWS is legal for trade certified and to define freight cost for packages.

5. LR-sorter

After identification, the item is sorted to the correct exit. Items are sorted directly into roll containers. The LR-sorter has a sorting capacity of 8.000 items per hour. This very compact sorter can handle a wide range of products, ranging from small envelopes and packets to 400 x 600 mm parcels.

6. Mobile robot

When a roll container is filled or the sorting is completed, the robot will automatically pick up the roll container and move it towards the shipping area. A second robot will immediately place an empty container in its place to allow continuous sorting.



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