

Trial Description

- **Task:** Build **1** single shipment from 1 single order. In this scenario there is one person moving in aisle #3. Products required to complete the shipment are located on the side of the shelves that are in aisle #3. The robot can use aisles #2 and #4 to access these products by extending the arms. With good sensor placements and good timing, the robot is also capable of grasping these products from aisle #3. Colliding with the moving person will set the score to 0 for this trial.
 - The conveyor belt is not used.
 - There are faulty products in the environment.
 - 1 obstacle which moves in the aisle where products are located.
- **Orders:** 1 order. order_0 consists of 1 single shipment (order_0::shipment_0).
 - The shipment in order_0 consists of 4 products in total:

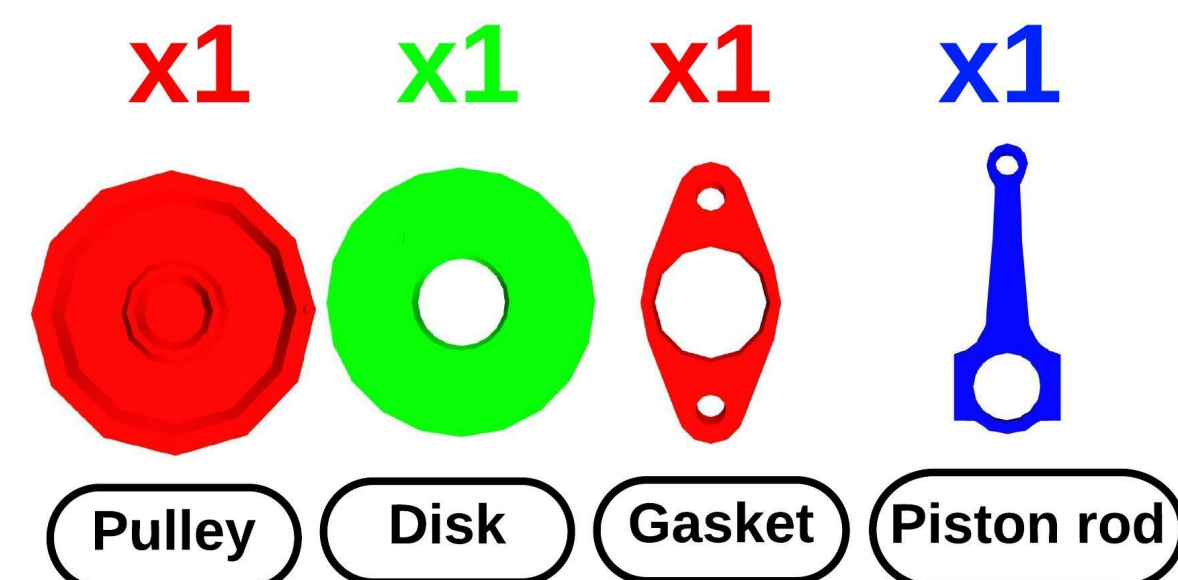


Fig. 1: Products used in shipment for order_0.

- **Maximum completion score:** 16 pts.
- **Agility challenges:**
 - Faulty products.
 - Flipped products.
- **Product vessels:**
 - bin \times 2, shelf \times 2, conveyor belt is not used.
- **Shipment deliveries:**
 - * order_0::shipment_0: AGV1.
- **Time limit:** 500 sim seconds.

Initial Product Placement

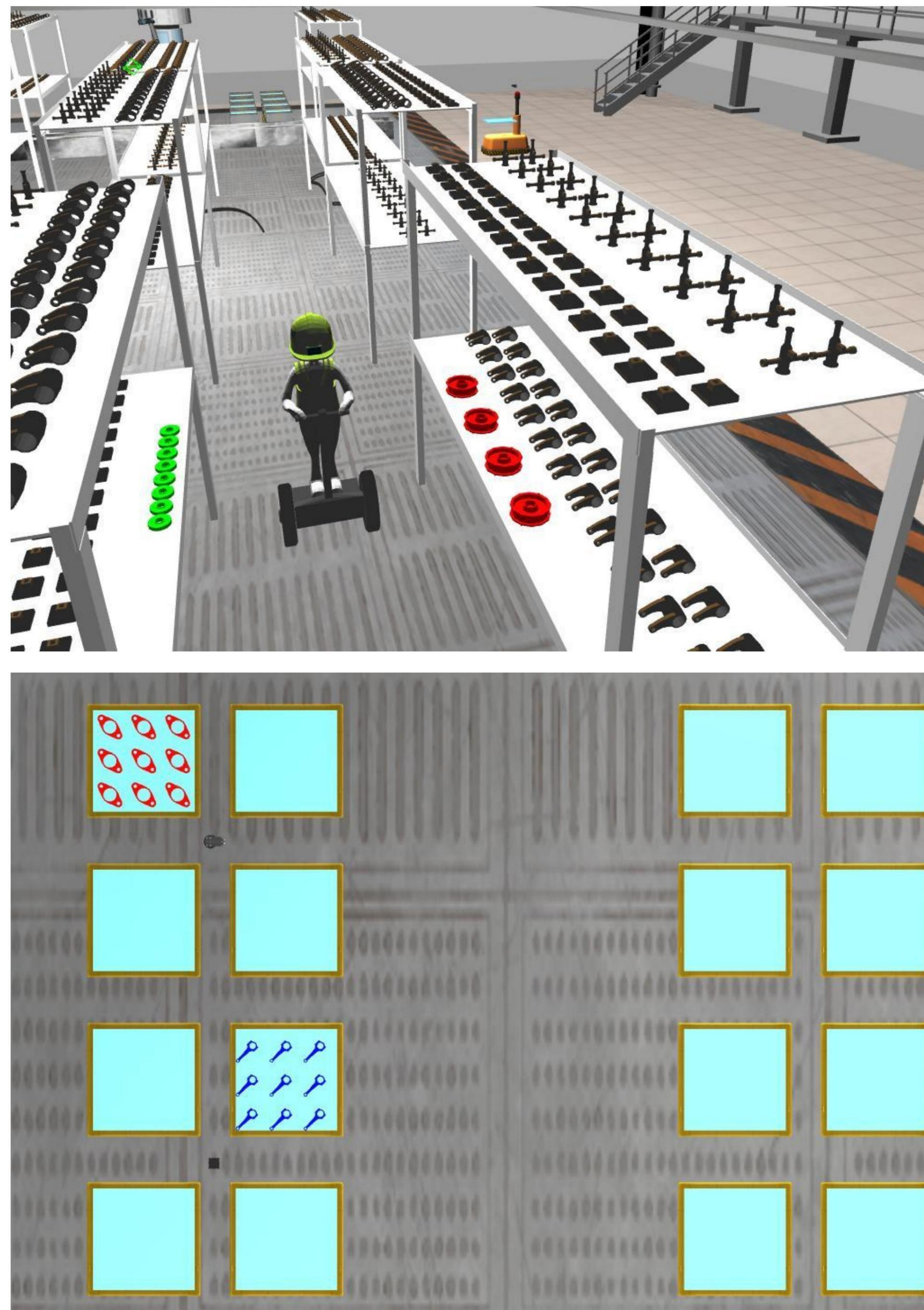


Fig. 2: Initial product placements.

Agility Challenges

- **Faulty products:** There are 3 faulty products in the environment.

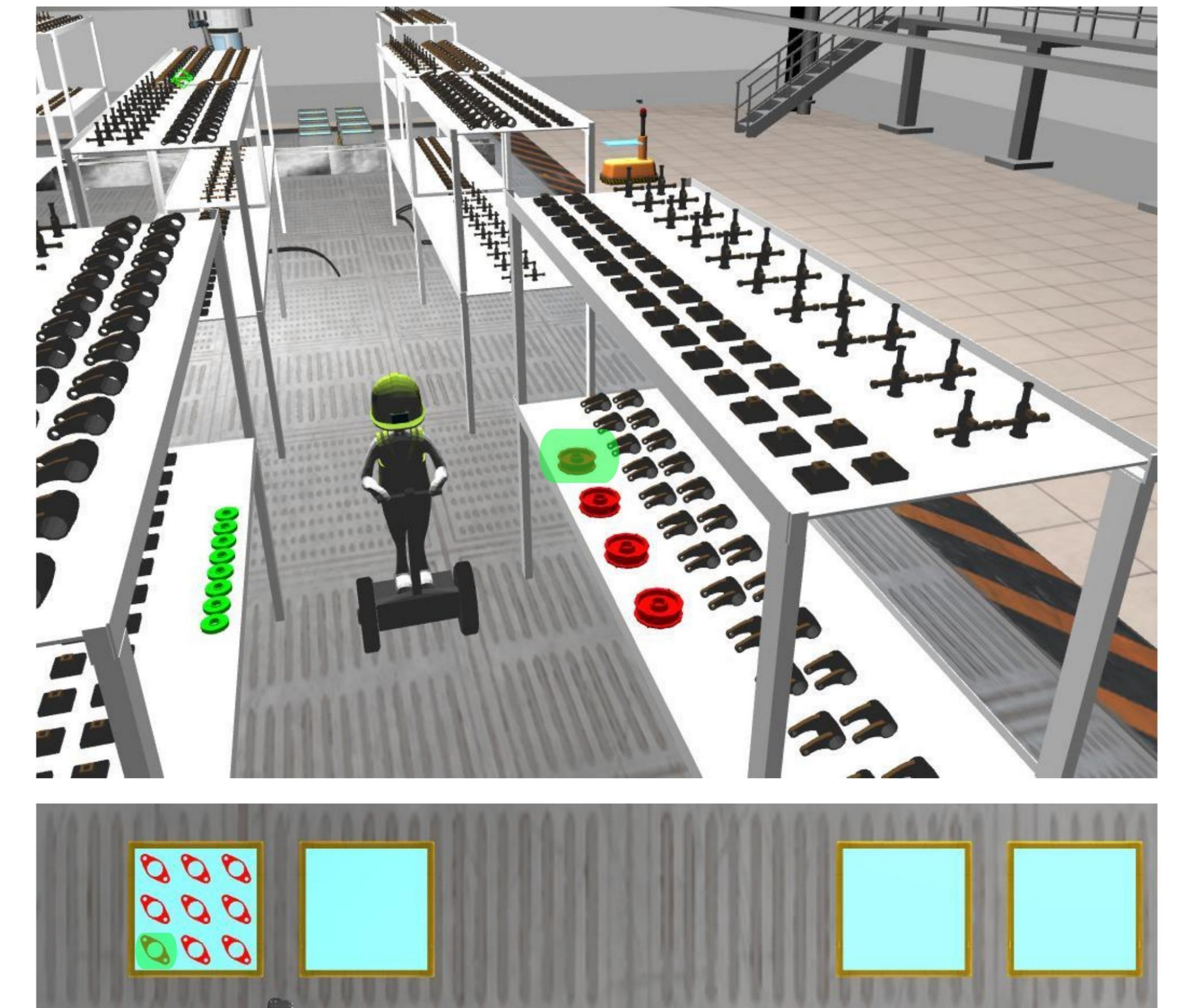


Fig. 3: Faulty products in the environment.

- **Flipped products:** 1 red pulley must be flipped FOR the shipment in order_0. Figure 4 highlights the flipped pulley in this shipment.

Orders

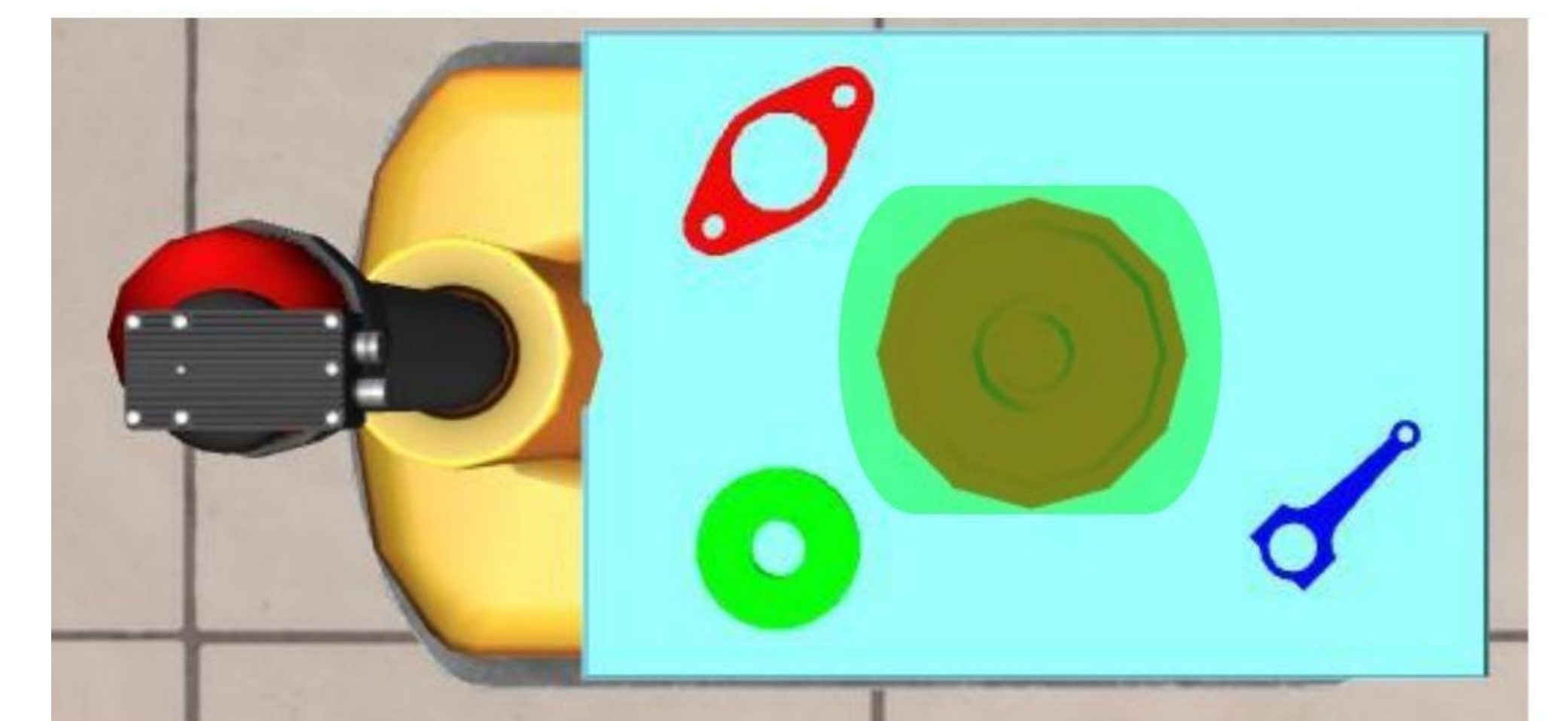


Fig. 4: order_0 shipment configuration on AGV1.