# ROS-I Staubli driver

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# ocado

The online supermarket

- Ocado is the world's largest online only grocery retailer
  - ~ **2,000,000** items picked every day
  - ~ **270,000** orders per week
  - ~ **47,000** distinct products (SKUs)
- 2 large warehouses (CFCs), 10 spokes (+2 CFCs coming soon)
  - Hatfield CFC: **275** pick stations
  - Dordon CFC: **250** pick stations

- Ocado is **more than** just the world's largest online only grocer
- We are a technology company
- We do research in Robotics
  - Internal projects
  - H2020 SecondHands
  - H2020 SoMa (soft manipulation)

# A taste of what we do at Ocado

- Gazebo packages to simulate the Staubli RX160/TX90 family
- ROS-I driver for any 6-axis Staubli robot arm (CS8 controller)

# ROS-I driver for 6-axis Staubli robots

- Implementation in Staubli's VAL3 launguage (s7.7.2)
- Developed and tested on CS8 controllers
- Conforms with REP-I0001 and REP-I0004
- Supports communication methods TOPIC and REQUEST
- Motion command execution time: 4-5 ms
- ACK response time: 20 ms
- https://github.com/ros-industrial/staubli_experimental