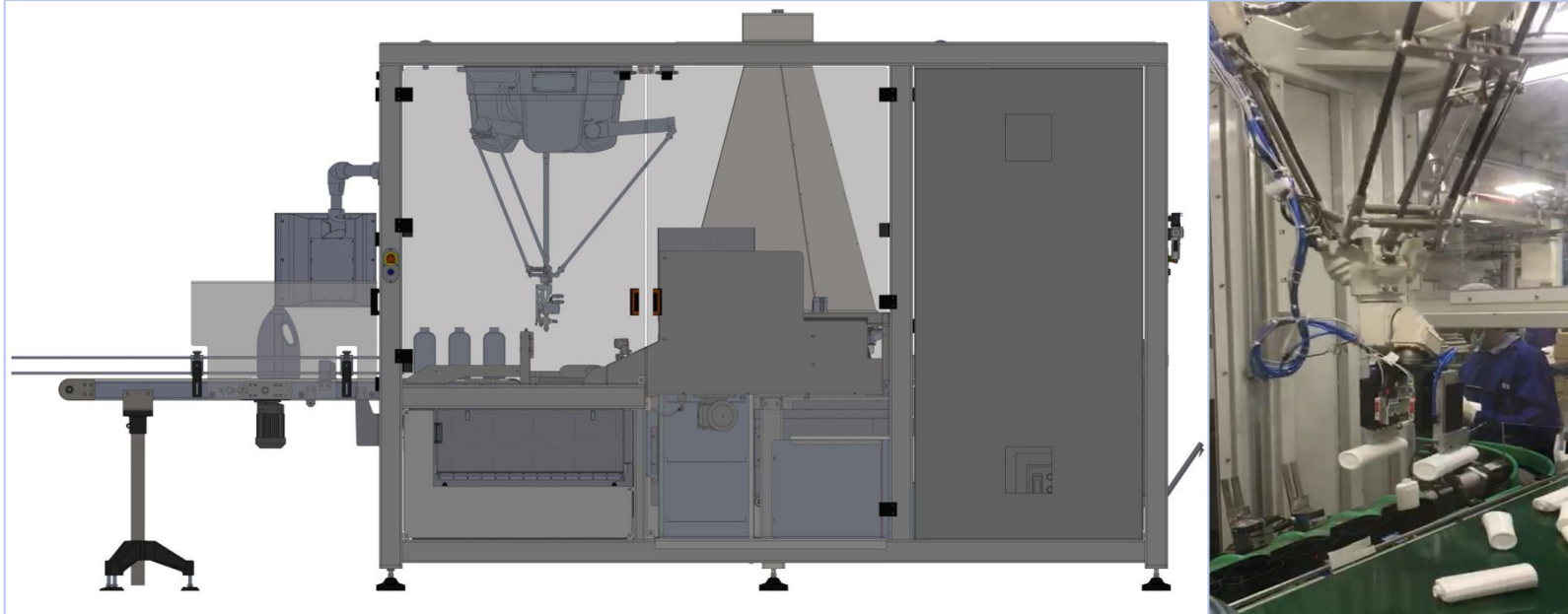


Bottle Un-Scrambler for Cosmetics production



Highlights

- Flexible, precise and rapid robotic handling system with delta kinematics
- Extremely powerful vision system to detect and process the complex contours of the components
- Customised vacuum gripper to draw in the parts
- Validation of the solution under real conditions at customer premises
- Ready-to-install complete systems with performance guarantee delivered directly to the production line

Customer

Green Planet Industries, Dubai, UAE.
Area of business: Packaging

Project

Unscrambler for reliable and precise sorting of bottles which arrive on a conveyor unsorted must be placed bottle tray conveyor.

Requirements

- High precision picking and placing of parts (precision ± 0.1 mm) in tray conveyor
- Cycle speed of 50 to 60 parts per minute
- Position sensing and rotating of parts if necessary
- Precision positioning of empty trays
- Automatic feeding of empty and removal of full trays

Solution

Robotic handling system as ready-to-install overall system for handling Bottles

- Delta Configuration Robot Model FANUC M3ia/6s
- Robotic controller Fanuc R30iA Mate
- Compact vision system Fanuc Integrated Vision sensor (IR Vision)System
- Integration-PLC/Sensors Siemens

Ready-to-install EOAT handling two bottles at a time

- Pneumatic systems

Benefits

- Quick and easy series change
- Format change can be done within a few seconds
- Increased production rate
- Manpower saved for unscrambling