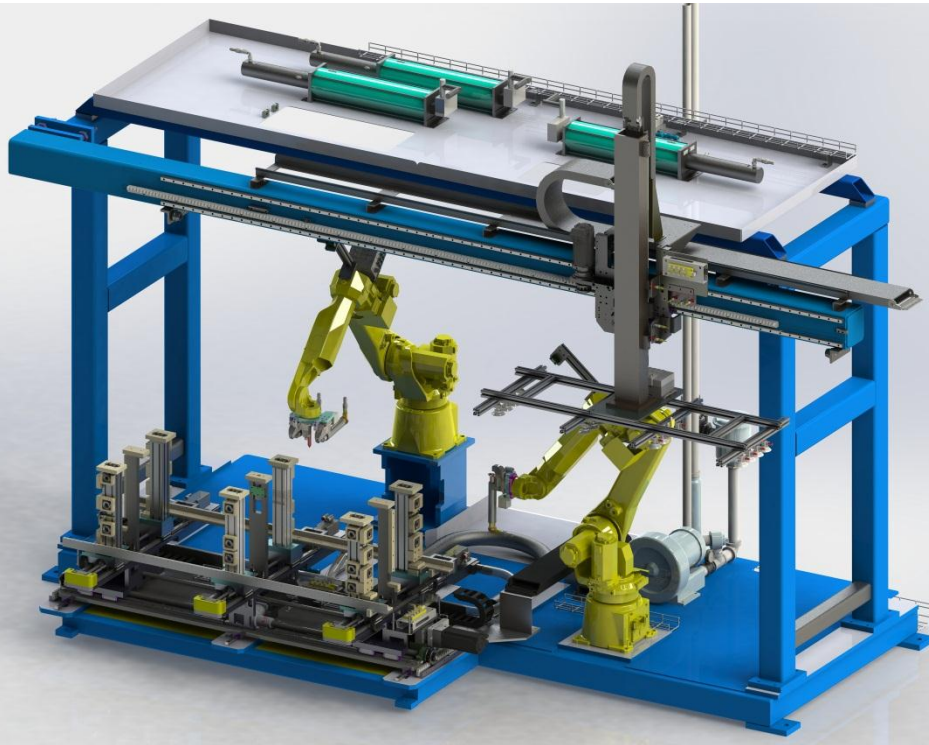


SHEET METAL CABINET ASSEMBLY



Material Handling
Robotic Integration
Custom Process

This project calls for custom handling and assembly of appliance cabinets. The sheet metal liner sub-components are formed upstream. They are then presented to the flexible (universal) assembly fixture, which is pre-programmed in the system PLC for 35 different cabinet configurations.

Once on the fixture, the cabinet is servo-transferred to the robotic fastening station. Two 6-axis robots equipped with TOX clinching heads join the liner components into a completed cabinet.

After joining, the cabinet is transferred back to the original position, where it is removed and transferred downstream via a servo-driven rack and pinion gantry.

FEATURES

- 35 cabinet configurations
- Universal assembly fixtures
- Robotically controlled tooling
- Multiple systems to meet production demand

TECHNOLOGIES

- Vision-guided robotics
- PLC-based control system with recipe management
- Servo-driven rack and pinion gantry