

# Automated Car Seat Assembly Line with Traceability

This automated car seat assembly line is designed for efficient and precise manufacturing. It utilizes software and hardware to control material tracking and features customizable cycle times.



## Overview

### Automated Car Seat Assembly Line

This automated assembly line is engineered for high-precision manufacturing of car seats, featuring advanced integration for complex components and wiring harnesses. The system enhances production reliability through comprehensive traceability software, barcode scanning, and automated visual inspection. Each workstation is equipped with dedicated SOP display screens to guide operators, ensuring consistent quality and streamlined assembly processes.

## System Features

### Operational Capabilities

- Real-time material tracking
- Automated component placement
- Synchronized PLC operation
- SOP display at each station
- Modular design for scalability

### Integrated Technologies

Traceability Software, Barcode Scanner, Labelling System, Visual Inspection System, PLC Control, Robotic Arms

## Quality Control

### Quality Assurance Methods

Visual Inspection • Error Detection • Real-time Monitoring • Traceability