Case Study
Buffering Conveyor System

leadec Industrial Services

The assignment

Design and build buffering conveyor system for vehicle bodies prior to entrance into paint.

The challenges

- Limited space required ceiling suspended mezzanine to be designed and fabricated so equipment could be installed over existing welding equipment.
- Building trusses were initially found to be inadequate to support mezzanine, therefore, ceiling reinforcement was necessary.
- All work was to be completed during shutdowns and off hours.

The process

Design and build buffering conveyor system for vehicle bodies prior to entrance into paint.

STEP 1
Reinforce Roof Trusses to Support Mezzanine

STEP 2
Hanging the mezzanine supports designed by Leadec.
Note: Roller beds lifted to sections as they are installed.

STEP 3
Installing mezzanine sections designed by Leadec. *Note: Installed and welded.*

STEP 4
All conveyor design completed with Inventor.

STEP 5
Conveyor assembled and kitted at shop. *Note: Kitting, prewired and tested in shop to reduce installation time.*

STEP 6
PLC design and fabrication completed. *Note: Kitting, prewired and tested in shop to reduce installation time.*

STEP 7
Installed and commissioned on site.