Automotive Assembly Systems
Rail Guided Cart Assembly System for Rear Suspension Modules

End User:
- TRW, Windsor CA

Product:
- RGC Assembly Line

All Vehicles Models of:
- 2017 Chrysler Pacifica

Assembly Jobs Per Hour:
- 72 JPH

Keys to Success:
- Rail Guided Carts (RGC)
- Flexible Tooling

Results:
- Met Cycle Time
- Quality Built Modules

Solutions:
- Fori Process

Fori supplied Assembly line consisted of a main build line, two module alignment machines and a final assembly build line. The main & final build line utilized Fori’s new flex rail system for build on cart transportation.

Utilizing a flex rail system and RGCs provides the utmost flexibility for customers who need to be able to accommodate changes easily. The ability to be flexible in the automotive world means less downtime, cost & reduced infrastructure during installation. This level of flexibility is now becoming the norm in majority of our Automotive Assembly Systems. The RGC system provided to TRW can easily be modified, whether it be adding a station or a product impact change.

Overhead support for tooling in most cases were simple jib booms or inverted L posts that bolted to the floor to promote flexibility of the system. In one instance where sequence and repeatability were extremely important for final torqueing camber links to the cradle & knuckle, a robot was integrated to keep that consistency.

The RGC system & associated tooling were integrated during the 3rd quarter of 2015.