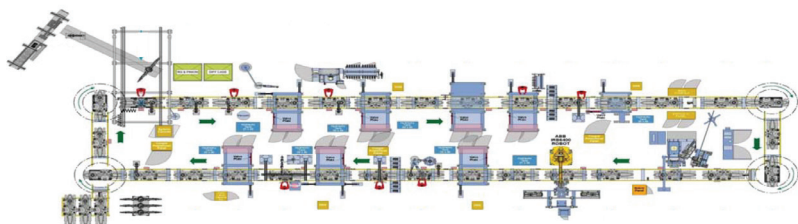


Rear Axle Assembly Line



Facts	
Industry	Automotive Tier One
Product	Rear Carrier
Installation Date	2002
Description	Assembly Line for the 9-3/4" and 10-1/2" rear axle for 4-wheel drive truck market. Non-synchronous power roll MS-7 transport system. Assembly of carrier with the tubes pressed prior to carrier build. Equipment will assemble five (5) different axle types with weekly production reaching 5,000 units with a two-shift operation.
Equipment	7 automatic stations 5 manual stations 4 semi-automatic stations 1 ABB robot ABB pinion shim gage and solid spacer preload machine ABB adjuster nut lash setting machine ABB pinion head verification gage machine
Customer Benefits	Quick model changeover Accessible tooling for ease of preventative maintenance Small system footprint ABB single-point service

Facts	
Technical Data	Capacity: 240,000/year (2-shift production) Cycle time: 45 seconds System Cpk: 1.67
Unique Elements:	Tubes pressed into carrier prior to pinion assembly Balancer-integrated assembly system Unique set lash arrangement
Customer Provided Equipment	N/A
Project/Steps to Implementation	Concept Specification Prototype Engineering Project management Manufacturing Installation supervision Installation Training
Project Responsibility:	Powertrain
Video/Photos/Reference:	No