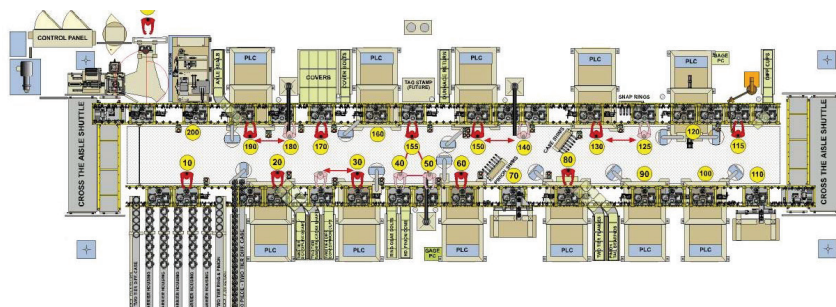


ROBOTICS

Independent Rear Axle Assembly Line



Facts

Industry	Automotive OEM
Product	Independent Rear Axle
Installation Date	2002
Description	<p>Assembly system for 205mm IRS axle for luxury/performance automotive market. The system utilizes ABB's MS-7 conveyor system. Capable of producing over 1,000 axles per day on a standard 2-shift production. Assembles (8) different models for (2) unique vehicle platforms. Operators on inside of assembly system to service multiple work positions in one cycle.</p>
Equipment	<p>15 automatic and semi-automatic stations 2 manual stations ABB DGS for pinion shim gauge ABB DGS for pinion bearing preload ABB DGS for case shim gauge 45 meters – 150 ft. of MS-7 limited torque roller conveyor 2 cross aisle shuttles</p>
Customer Benefits	<p>ABB standard modules provide customer repeatable process quality and throughput Lean assembly approach adjusts manpower to production volume and minimizes direct labor costs System can use from (2) to (13) direct operators at different production rates Small system footprint – fits easily into customer plant ABB DGS system provides a common platform for all critical gauging operations Cross aisle shuttles provide “walk-in” access to both ends of line</p>

Facts	
Technical Data	47 second cycle time 360 m2 – 4,000 ft2 System Cpk: 1.67+ System G, R & R: 10%
Unique Elements:	N/A
Customer Provided Equipment	End-of-line axle tester
Project/Steps to Implementation	Concept Specification Prototype Engineering Project management Manufacturing Installation supervision Installation Training
Project Responsibility:	Powertrain
Video/Photos/Reference:	No