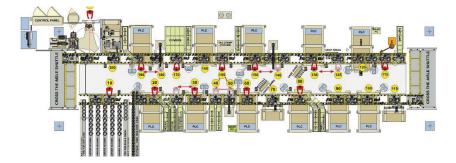


## ROBOTICS

## Independent Rear Axle Assembly Line



Facts	
Industry	Automotive OEM
Product	Independent Rear Axle
Installation Date	2002
Description	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.
Equipment	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
	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
Customer Benefits	Cross aisle shuttles provide "walk-in" access to both ends of line

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

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