## IFS 205mm Carrier Assembly Line

### Facts

<table>
<thead>
<tr>
<th>Industry</th>
<th>Automotive OEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product</td>
<td>IFS Front Axle</td>
</tr>
<tr>
<td>Installation Date</td>
<td>1999, 2003, 2004</td>
</tr>
</tbody>
</table>

**Description**

Assembly line for IFS 205mm Carrier Assembly. Assembly system is a non-synchronous power roll MS-7 transport delivery system. Equipment assembles four (4) distinct aluminum “IFS” carrier assemblies.

**Equipment**

- 13 robots
- 22 automatic stations
- 4 manual stations
- 3 semi-automatic stations

**Customer Benefits**

- Kitted material on pallets minimizes floor dunnage
- Accessible tooling for ease of preventative maintenance
- Online test equipment
- Automatic case shim gauge, selection, and insertion reduces direct labor
- Patented shim selection and robotic processing increases production
**Facts**

**Technical Data**
- Capacity: 430,000/year
- Cycle Time: 30 seconds

**Unique Elements:**
- Line assembles “over-center” and “under-center” pinion carries
- Pressed half-shaft arm
- ABB patented robot shim selection

**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:**
- Yes