



*Conveyor (long)  
SGV delivering  
parts to storage*

### Features

Number of Vehicles:	17
Application Description:	Transport Full and Empty Racks of WIP
Industry Description:	Automotive
Guidance Method:	Laser
Load Description:	5,000 lb
SGV Host Controls:	MS Server 2003
Pick/Drop Type:	Racks transferred to conveyors and stands

### Benefits

- No plant interruptions during installation
- Flexible solution for plant's changing production demands
- Controlled transportation of parts to ensure a safe plant environment
- Gentle handling to eliminate damage to parts
- On delivery optimizing operating efficiency

### Description

A fleet of seventeen (17) SGVs transport racks of machined parts between machining centers, storage, and assembly.

Each SGV trailer carries racks filled with door, hood or bodyside parts to an unload staging area.

Once the full racks have been delivered, empty racks are typically loaded onto the SGV and taken back to the machining center for reloading with parts. The loading/unloading cycle repeats.

SGV Manager software supports the entire system, managing SGV movement, tracking rack locations in the facility, and creating SGV orders.

This multi-phase project dramatically increased savings for this major automotive supplier.



*Short Conveyor  
Deck SGVs deliver  
cast parts to  
machining center.*



SGVs Qty	SGV Type	Application
6	Conveyor (Short)	Delivery/retrieval of cast parts to rough machining center
6	Conveyor (Long)	Parts between machining centers and storage
5	Lift Deck	Converter housings between machining and assembly



*Lift Deck SGVs interface with stands at the pickup and drop-off points.*

### Application

Self-Guided Vehicles support automotive transmission manufacturing by providing automated material transport between machining centers, storage and assembly.

Material movement orders are created when racks index to the pickup position on the conveyor or when racks are placed in the stand. Load detection sensors “see” the loads in the pickup position and automatically create an order to move the load to the proper destination.



*Conveyor (short) SGV with smooth load transfer to conveyor*

[www.jbtc-agv.com](http://www.jbtc-agv.com)



John Bean Technologies Corp.  
400 Highpoint Drive  
Chalfont, PA 18914 USA  
Phone: 215-822-4600  
Fax: 215-822-4553  
sgv.sales@jbtc.com

John Bean Technologies Ltd.  
Unit VI Winchester Avenue  
Blaby Industrial Park  
Blaby Leicester, UK, LE8 4GZ  
Phone: +44 116 264 2250  
Fax: +44 116 264 2279  
uksgvsales@jbtc.com