



Brampton Assembly Plant

Features

Date Installed:	Phase 1- January 2004 Phase 2- January 2005
Facility Location:	Brampton, Ontario
Number of Vehicles:	61 (37 Reach Vehicles, 5 Tugger Vehicles, 19 Pantograph Vehicles)
Vehicle Capacity:	Reach 4,000lbs Tugger 30,000lbs Pantograph 4,000lbs
Load Description:	Racks of automotive parts
Guidance Method:	Laser
SGV Host Controls:	Windows- SGV Manager
Building Size:	2.95 million sq. ft.
Throughput:	2,700 trips/day

System Description

27 Reach Self Guided Vehicles (SGVs) transport stamped parts from the AS/RS to over/under conveyors at workstations in the body shop. When body shop operators need more parts a signal is sent automatically to the SGV host computer, which then sends a signal to the AS/RS for more parts. The AS/RS retrieves and delivers the parts to a pick-up location and sends a signal to the SGV host when the parts are ready for pickup. The reach vehicles also return empty racks to the AS/RS from the body shop.

In addition 10 other Reach SGVs transport parts manufactured by outside suppliers from receiving docks to the over/under conveyors in the body shop. 5 Tugger vehicles travel this same route and transport 3 dollies at a time filled with racks of parts.

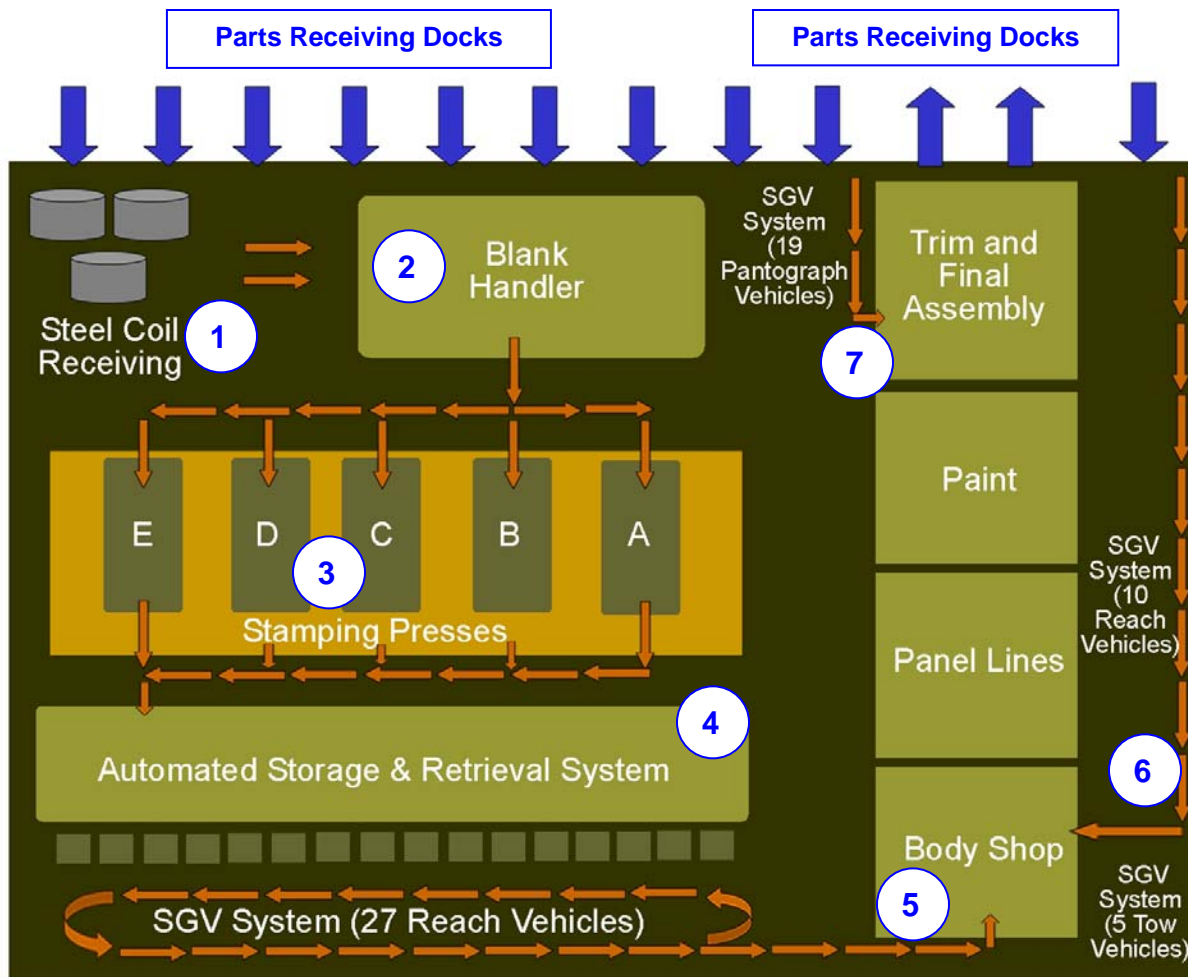
19 Pantograph SGVs service the Trim/Final Assembly area, and deliver parts from receiving docks. The vehicles destack racks and bins from the dock lanes and bring them to designated workstations on the line.

Benefits:

- Plant operates on a pull system
- Parts are delivered in-sequence to workstations
- Productivity increased by 18%
- Reduced operating costs
- Eliminated congestion and improved material flow



Plant Layout



- 1 Steel coils arrive in receiving
- 2 Steel coils are moved to the blank handler where they are unrolled and blanks are made
- 3 Blanks are transported to five stamping presses
- 4 Stamped parts are loaded onto racks and placed on shuttle cars for movement to the AS/RS
- 5 When the body shop issues a request for a rack of stamped parts the AS/RS retrieves it and delivers it to a pick up station. An SGV picks up the rack and delivers it to a workstation in the body shop.

- 6 Parts are also picked up from the parts receiving dock at the other end of the plant and delivered to the body shop by Reach vehicles and Tugger vehicles.
- 7 Pantograph SGVs deliver parts from another set of receiving docks to the trim/final assembly area on a pull basis

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 SA
106 Bd Heloise
Les Harmoniques
95101 Argenteuil Cedex, France
Phone: +331 399 646 59
Fax: +331 399 646 74
contact@jbtc-agv.fr

John Bean Technologies NV
Breedstraat, 3
B-9100 Sint Niklaas, Belgium
Phone: +32 3 780 1336
Fax: +32 3 777 7955
snt1_sgv@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