



FlexTrolley™
ARGV System



FlexTrolley™ ARGV System

Description

The ATS FlexTrolley Automated Rail-Guided Vehicle (ARGV) System™ brings a new level of productivity to station-to-station material transfer for the manual or automated assembly of large, complex products.

Modular and easily reconfigurable, the FlexTrolley ARGV System™ offers the precision of a chain conveyor with the independent control of an AGV. The result is unprecedented flexibility for plants producing heavy assemblies such as automotive axles, suspension struts and corners, dashboards, door modules or similar components.

Each part is fixtured on a self-driven, wheeled trolley, guided along slotted track sections on the floor, which can be routed to provide fast transfer times between stations. Trolley motion is independent, programmed by means of a micro PLC mounted on each carrier, so cycle times can be optimized at each station.

Fixtures swivel to preset angles to provide fast access during assembly operations. Full 360° horizontal access lets operators move freely around the trolley. Components can be supplied from either side of the line. Manual or automated process tools are suspended and powered from overhead beams, keeping the floor area free for operators.

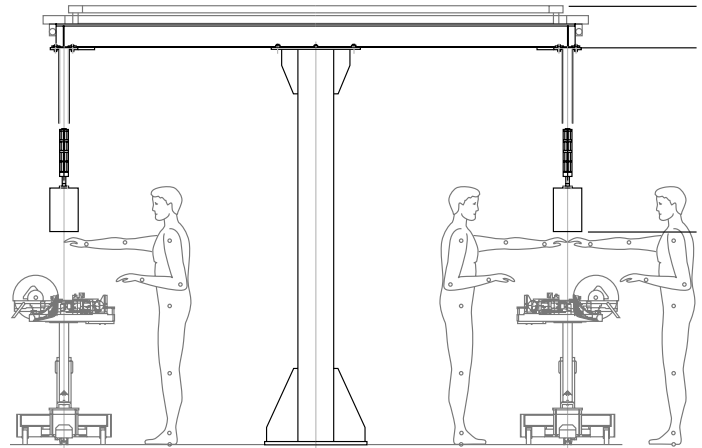
Made from industry-standard components, the FlexTrolley ARGV System™ is extremely simple, consisting only of the carriers, controls, overhead beams and guide track, which installs easily with no modifications to the plant floor. Extension of the line or changeover for new products is easy.

System Specifications

Payload:	120 kg
Horizontal Access:	Full 360°
Speed:	3 - 24 metres/min (automated) 4 metres/min (manual)
Speed adjust:	±20 per cent
Communication:	infrared (automated)
Battery run time:	Approx. 16 hours

Features

- Communication with master PLC by infrared port, for product tracking by part reference or results of operations
- Trolleys powered by high-speed electric motor
- Batteries automatically recharged at stations without the need for changeout
- Low power consumption
- Sensors in bumpers provide automatic collision detection
- Clean, quiet operation
- Few moving parts to wear and fail, low maintenance costs
- Carriers can be taken off-line without shutting down operations
- Assembly tools can be suspended from overhead beams
- Re-configuration is easy



Contact ATS directly for custom applications or for product specific applications beyond the scope of this document.



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