

Material Transport Product Selection Criteria

How Hospitals use Automated Material Transport Systems



Light unit load
High-speed transport

On-demand transport (laboratory specimens, pharmaceuticals, surgical items, IV bags)



Medium-weight unit load
Lower-speed Transport





On-demand transport (Medical records, central supply, X-ray films, intra-laboratory transport, bulk pharmaceuticals)



Bulk movement
Lower-speed transport

On-demand and scheduled transport (Bulk food, deliveries/soiled dishes, clean/soiled linens, bulk supplies, sterile supplies and trash)

Automated Material Transport Solution Type

<p>Automated System</p>	<p>Pneumatic Tube Systems (PTS)</p> 			
<p>Applications</p>	<p>Light unit load, high-speed transport—</p> <ul style="list-style-type: none"> -Pharmaceuticals, -Lab specimens -Supplies -Paperwork 	<p>Medium-weight unit load, lower-speed transport</p> <ul style="list-style-type: none"> - Medical Records & Central Supply - X-ray film - Intra-Laboratory Transport - Bulk pharmaceuticals 	<p>Medium-weight unit load, lower-speed transport</p> <ul style="list-style-type: none"> - Mail - Parcels, - Internal paperwork - Office supplies 	<p>Bulk, lower speed transport (on-demand and scheduled)</p> <ul style="list-style-type: none"> - Meal trays - Clean and soiled laundry - Central supplies - Surgical supplies

Comparison of Systems

Automated System	Payload	Speed	Flexibility	Expand-ability	Facility Modification Required	Cost
Pneumatic Tube Systems	Light – Up to 10 lbs	1,500 feet per minute	High	High	Moderate	Moderate
Track Vehicle Systems	Light-Up to 25 pounds	100 feet per minute	Moderate	Moderate	Moderate to High	Moderate-High
Selective Vertical Conveyor	Moderate-Up to 60 lbs.	12 dispatches at up to 68 feet per minute	Low	Low	Moderate-High	Moderate
Automated Guided Vehicles	Heavy-Over 800 lbs.	100-200 feet per minute	Moderate	Moderate-High	Moderate-Low	Moderate-High



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