Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

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Automation Overview

Total Warehouses: 5 Total Robots: 43

Average Utilization: 78.4% Throughput Increase: 34.2% Labor Cost Reduction: 28.5%

ROI Period: 2.3 years

Warehouse Performance

Warehouse Location		Capacity Used	Inbound/ Day	Outbound/ Day	Picking Accuracy	Automation Status Level	
	Distribution Chicago, IL		1,165	2,219	96.7%	92.2%	Optimized
	Center A Distribution Dallas, TX Center B	34.7%	2,813	1,885	99.4%	78.1%	Improvemen t Needed
	Distribution Atlanta, GA Center C	50.7%	1,558	3,160	95.1%	79.3%	Improvemen t Needed
	Distribution Los Center D Angeles, CA	46.4% A	2,545	3,157	95.1%	61.2%	Improvemen t Needed
	Distribution Newark, NJ Center E	55.6%	1,799	1,564	98.0%	81.4%	Optimized

Optimiz ation O pportun ities

Deploy 5
additional
AGVs in
Warehouse
3 to
increase
throughput
by 20%
• Imple

ment voicepicking system to improve accuracy to 99.8%

- Upgra de WMS integration for real-time inventory visibility
- Add au tomated sortation system for small package handling
- Imple ment predictive analytics for demand-based staffing
- Consid er AS/RS system for highvelocity SKUs