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: 57

Average Utilization: 75.0% 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		2,853	2,190	98.5%	85.8%	Optimized
	Center A Distribution Dallas, TX Center B	42.1%	1,898	1,776	95.1%	61.0%	Improvemen t Needed
	Distribution Atlanta, GA Center C	104.7%	1,436	2,926	96.9%	67.7%	Improvemen t Needed
	Distribution Los Center D Angeles, CA	80.8% \	1,810	2,509	99.0%	72.4%	Improvemen t Needed
	Distribution Newark, NJ Center E	113.6%	1,522	2,133	98.5%	88.1%	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