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: 59

Average Utilization: 77.9% 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 Level	n Status
Distribution Chicago, IL Center A	35.7%	2,858	2,672	97.8%	78.8%	Improvemen t Needed
Distribution Dallas, TX Center B	60.3%	1,401	1,763	95.7%	75.8%	Improvemen t Needed
Distribution Atlanta, GA Center C	79.6%	1,153	2,988	97.7%	69.9%	Improvemen t Needed
Distribution Los Center D Angeles, CA Distribution Newark, NJ Center E	107.8%	1,361	1,860	95.4%	83.0%	Optimized
	^A 83.9%	2,701	3,487	95.4%	81.9%	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