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: 79.3% 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	45.8%	2,867	3,550	95.5%	83.4%	Optimized
Center A Distribution Dallas, TX Center B	90.0%	2,370	2,706	96.5%	68.1%	Improvemen t Needed
Distribution Atlanta, GA	55.6%	2,920	2,874	97.6%	90.0%	Optimized
Center C Distribution Los	100.5%	1,514	2,272	96.6%	89.4%	Optimized
Genter D. Angeles, C. Center E.	⁴ 46.4%	1,704	2,071	95.4%	65.7%	Improvemen t Needed

Optimiz ation O pportun ities

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

picking 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