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: 44

Average Utilization: 79.6% 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	Status
Distribution Chicago, IL		1,871	1,613	99.3%	80.8%	Optimized
Center A Distribution Dallas, TX Center B	77.9%	1,088	2,394	95.9%	77.6%	Improvemen t Needed
Distribution Atlanta, GA Center C	58.9%	1,226	2,934	97.4%	61.2%	Improvemen t Needed
Distribution Los	31.9%	1,710	2,294	98.0%	87.9%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	⁴ 59.2%	2,044	2,948	97.0%	90.5%	Optimized

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