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: 29

Average Utilization: 77.0% 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 Level	n Status
Distribution Chicago, IL Center A	66.8%	1,810	3,303	97.3%	61.5%	Improvemen t Needed
Distribution Dallas, TX Center B	102.3%	1,827	1,850	98.1%	77.2%	Improvemen t Needed
Distribution Atlanta, GA Center C	74.7%	2,936	1,736	96.5%	63.6%	Improvemen t Needed
Distribution Los	74.6%	2,548	3,327	98.6%	93.6%	Optimized
Genter D Distribution Newark, NJ Center E	⁴ 69.9%	1,405	3,461	99.4%	89.3%	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