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: 45

Average Utilization: 74.5% 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 Center A	45.3%	2,311	3,499	96.0%	60.3%	Improvemen t Needed
Distribution Dallas, TX Center B	72.9%	2,042	2,301	99.5%	64.9%	Improvemen t Needed
Distribution Atlanta, GA Center C	56.3%	2,809	3,195	98.3%	73.3%	Improvemen t Needed
Distribution Los	91.6%	1,430	3,365	98.3%	86.9%	Optimized
Genter D Distribution Newark, NJ Center E	^A 56.7%	2,128	3,574	98.9%	87.2%	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