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: 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	Status
Distribution Chicago, IL	34.0%	2,930	2,719	99.2%	84.8%	Optimized
Center A Distribution Dallas, TX Center B	40.4%	2,228	1,695	95.6%	67.8%	Improvemen t Needed
Distribution Atlanta, GA Center C	63.6%	1,427	2,064	97.6%	67.5%	Improvemen t Needed
Distribution Los	49.5%	1,455	2,982	99.4%	87.0%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	¹ 66.3%	1,556	2,228	97.6%	77.8%	Improvemen t Needed

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