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: 81

Average Utilization: 78.0% 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	75.1%	1,553	2,245	96.8%	75.2%	Improvemen t Needed
Distribution Dallas, TX	62.5%	1,184	3,920	96.5%	90.9%	Optimized
Center B Distribution Atlanta, GA Center C	128.1%	1,596	1,883	95.6%	62.7%	Improvemen t Needed
Distribution Los Center D Angeles, CA	36.8% \	1,029	1,675	95.4%	71.8%	Improvemen t Needed
Distribution Newark, NJ Center E	66.8%	1,054	2,696	95.6%	89.2%	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