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: 73.9% 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	94.1%	1,850	3,571	99.1%	64.4%	Improvemen t Needed
Distribution Dallas, TX Center B	53.3%	2,819	1,873	97.0%	63.6%	Improvemen t Needed
Distribution Atlanta, GA Center C	90.2%	2,058	2,756	97.8%	66.6%	Improvemen t Needed
Distribution Los	68.3%	2,218	3,008	97.2%	90.8%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	⁴ 82.0%	2,585	3,725	99.0%	84.0%	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