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: 63

Average Utilization: 73.6% 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	68.5%	1,726	2,877	96.0%	62.9%	Improvemen t Needed
Distribution Dallas, TX Center B	35.5%	1,787	2,269	98.2%	70.6%	Improvemen t Needed
Distribution Atlanta, GA Center C	71.6%	2,617	1,625	98.9%	61.2%	Improvemen t Needed
Distribution Los	121.4%	2,593	2,255	99.3%	86.5%	Optimized
Genter D Angeles, CA Distribution Newark, NJ Center E	⁴ 44.8%	2,744	1,720	98.7%	86.8%	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