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: 57

Average Utilization: 73.4% 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	68.4%	2,139	1,640	98.9%	67.1%	Improvemen t Needed
Distribution Dallas, TX Center B	82.8%	2,987	2,001	95.4%	62.8%	Improvemen t Needed
Distribution Atlanta, GA Center C	73.7%	2,435	1,510	96.1%	65.6%	Improvemen t Needed
Distribution Los	64.1%	1,991	2,605	95.4%	89.0%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	^A 68.9%	1,711	3,490	95.4%	82.7%	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