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: 39

Average Utilization: 78.4% 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	77.6%	2,385	1,524	99.1%	78.8%	Improvemen t Needed
Distribution Dallas, TX Center B	90.0%	1,106	3,811	95.2%	79.0%	Improvemen t Needed
Distribution Atlanta, GA Center C	98.1%	2,727	1,994	99.0%	63.6%	Improvemen t Needed
Distribution Los	37.3%	1,642	2,125	96.5%	84.0%	Optimized
Genter D. Angeles, C. Distribution Newark, NJ Center E	^A 132.5%	1,950	3,210	96.3%	86.7%	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