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: 47

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	Status
Distribution Chicago, IL Center A	86.3%	2,279	2,197	95.5%	70.1%	Improvemen t Needed
Distribution Dallas, TX Center B	60.3%	1,962	2,041	96.0%	62.0%	Improvemen t Needed
Distribution Atlanta, GA	82.0%	2,810	3,073	95.3%	84.1%	Optimized
Center C Distribution Los Center D Angeles, CA	76.1% \	2,360	2,275	97.7%	67.9%	Improvemen t Needed
Distribution Newark, NJ Center E	88.7%	1,362	2,602	98.5%	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