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: 74

Average Utilization: 76.1% 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 Status Level	
Distribution	Chicago, IL	50.1%	2,222	3,370	98.4%	93.3%	Optimized
Center A Distribution	•	62.5%	1,862	1,967	95.1%	80.2%	Optimized
Center B Distribution Center C	Atlanta, GA	120.9%	1,659	3,052	97.9%	64.0%	Improvemen t Needed
Distribution Center D	Los Angeles, CA	75.6% \	1,726	3,947	96.3%	73.3%	Improvemen t Needed
Distribution Center E	Newark, NJ	61.2%	1,318	1,751	96.9%	69.8%	Improvemen t Needed

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