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: 73.9% 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	40.5%	2,608	3,319	99.2%	63.0%	Improvemen t Needed
Distribution Dallas, TX	49.3%	2,345	2,150	98.5%	84.2%	Optimized
Center B Distribution Atlanta, GA Center C	54.5%	1,604	2,647	95.6%	68.6%	Improvemen t Needed
Distribution Los Center D Angeles, CA	74.3% A	2,149	2,000	97.9%	66.0%	Improvemen t Needed
Distribution Newark, NJ Center E	108.6%	1,767	2,590	99.3%	87.8%	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