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: 41

Average Utilization: 85.0% 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		1,973	3,372	97.9%	83.8%	Optimized
Center A Distribution Dallas, TX		1,341	1,921	96.3%	89.2%	Optimized
Center B Distribution Atlanta, GA	68.5%	1,783	2,204	96.2%	84.1%	Optimized
Center C Distribution Los Center D Angeles, CA	35.7% \	2,996	3,218	98.0%	73.7%	Improvemen t Needed
Distribution Newark, NJ Center E	128.1%	1,962	2,072	96.9%	94.2%	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