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: 53

Average Utilization: 80.9% 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	n Status
Distribution Chicago, IL	108.9%	2,197	2,766	97.1%	91.1%	Optimized
Center A Distribution Dallas, TX	65.5%	2,645	2,050	96.6%	94.9%	Optimized
Center B Distribution Atlanta, GA Center C	82.0%	1,538	3,072	96.9%	70.9%	Improvemen t Needed
Distribution Los	111.8%	2,573	3,555	95.4%	82.1%	Optimized
Genter D Angeles, CA Distribution Newark, NJ Center E	⁴ 57.3%	1,028	2,312	97.2%	65.6%	Improvemen t Needed

Optimiz ation O pportun ities

Deploy 5
additional
AGVs in
Warehouse
3 to
increase
throughput
by 20%
• Imple
ment voice-

picking 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