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: 44

Average Utilization: 76.6% 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	58.7%	2,053	1,541	97.9%	84.0%	Optimized
Center A Distribution Dallas, TX Center B	44.8%	2,568	2,917	97.4%	63.6%	Improvemen t Needed
Distribution Atlanta, GA Center C	83.7%	2,106	2,084	97.4%	60.3%	Improvemen t Needed
Distribution Los	68.1%	2,373	1,873	95.7%	82.8%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	⁴ 44.5%	2,825	2,373	96.1%	92.4%	Optimized

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