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: 64

Average Utilization: 79.9% 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	83.5%	1,180	2,550	98.6%	61.3%	Improvemen t Needed
Distribution Dallas, TX	82.5%	2,496	3,130	96.7%	84.5%	Optimized
Center B Distribution Atlanta, GA Center C	50.8%	2,977	3,676	98.0%	68.3%	Improvemen t Needed
Distribution Los Center D Angeles, CA Distribution Newark, NJ Center E	120.9%	2,602	1,840	95.6%	91.1%	Optimized
	⁴ 60.3%	2,680	2,191	96.0%	94.3%	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