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: 82.5% 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	88.3%	1,146	2,091	95.8%	89.5%	Optimized
Center A Distribution Dallas, TX Center B	68.3%	1,665	2,575	97.0%	73.2%	Improvemen t Needed
Distribution Atlanta, GA	54.6%	2,998	2,647	95.9%	84.9%	Optimized
Center C Distribution Los Center D Angeles, CA	39.9%	2,659	3,692	99.3%	78.8%	Improvemen t Needed
Distribution Newark, NJ Center E	55.2%	2,575	1,853	98.3%	86.0%	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