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: 61

Average Utilization: 79.4% 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		2,184	2,499	97.6%	94.9%	Optimized
,		2,118	2,935	99.4%	80.5%	Optimized
Center B Distribution Atlanta, GA Center C	69.4%	1,434	2,262	95.1%	64.4%	Improvemen t Needed
Distribution Los Center D Angeles, CA	58.6% A	1,715	2,582	97.2%	65.1%	Improvemen t Needed
Distribution Newark, NJ Center E	75.6%	1,442	2,984	98.6%	91.9%	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