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: 70

Average Utilization: 81.7% 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	59.9%	1,520	3,801	97.0%	88.0%	Optimized
Center A Distribution Dallas, TX Center B	83.9%	1,392	1,641	95.9%	73.4%	Improvemen t Needed
Distribution Atlanta, GA Center C	68.0%	2,374	2,149	97.7%	65.4%	Improvemen t Needed
Distribution Los	76.8%	1,572	1,657	96.2%	91.3%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	¹ 76.4%	2,153	2,295	95.4%	90.3%	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