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: 65

Average Utilization: 79.3% 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		1,550	3,315	95.2%	83.7%	Optimized
Center A Distribution Dallas, TX		2,522	1,770	96.4%	90.4%	Optimized
Center B Distribution Atlanta, GA Center C	86.6%	2,884	2,802	98.5%	73.2%	Improvemen t Needed
Distribution Los Center D Angeles, CA	89.3% N	1,360	1,928	98.4%	62.8%	Improvemen t Needed
Distribution Newark, NJ Center E	88.7%	1,576	1,850	96.0%	86.7%	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