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: 28

Average Utilization: 80.9% 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	110.9%	2,460	2,400	96.1%	93.3%	Optimized
Center A Distribution Dallas, TX Center B	40.2%	2,981	3,560	96.6%	66.9%	Improvemen t Needed
Distribution Atlanta, GA	70.5%	1,095	2,716	95.8%	85.5%	Optimized
Center C Distribution Los Center D Angeles, CA	78.1% \	1,453	2,472	95.7%	68.4%	Improvemen t Needed
Distribution Newark, NJ Center E	43.3%	1,573	3,851	95.3%	90.2%	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