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: 53

Average Utilization: 80.3% 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	77.5%	1,992	1,702	97.9%	93.8%	Optimized
Center A Distribution Dallas, TX Center B	106.6%	1,202	2,556	98.5%	60.6%	Improvemen t Needed
Distribution Atlanta, GA Center C	68.8%	2,709	2,523	97.7%	74.0%	Improvemen t Needed
Distribution Los	75.5%	2,548	3,362	98.9%	90.9%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	^A 64.5%	2,298	3,610	95.2%	82.1%	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