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: 71

Average Utilization: 83.1% 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	78.7%	2,440	2,518	96.4%	93.0%	Optimized
Center A Distribution Dallas, TX	60.2%	1,293	3,692	97.8%	93.8%	Optimized
Center B Distribution Atlanta, GA Center C	63.6%	1,152	1,745	97.8%	70.9%	Improvemen t Needed
Distribution Los Center D Angeles, CA	84.7% A	2,568	2,170	99.2%	72.6%	Improvemen t Needed
Distribution Newark, NJ Center E	69.8%	2,947	2,428	97.0%	85.0%	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