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: 60

Average Utilization: 83.8% 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		2,583	1,818	98.7%	87.4%	Optimized
Center A Distribution Dallas, TX		2,055	2,948	96.0%	92.1%	Optimized
Center B Distribution Atlanta, GA Center C	64.9%	1,171	1,555	96.2%	74.5%	Improvemen t Needed
Distribution Los Center D Angeles, CA	35.3% \	1,587	3,280	99.3%	72.5%	Improvemen t Needed
Distribution Newark, NJ Center E	74.9%	1,556	3,052	96.2%	92.1%	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