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: 30

Average Utilization: 74.8% 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 Center A	64.5%	1,112	3,428	96.9%	64.1%	Improvemen t Needed
Distribution Dallas, TX Center B	70.9%	2,380	2,194	98.6%	60.5%	Improvemen t Needed
Distribution Atlanta, GA	45.9%	1,190	2,288	96.1%	94.1%	Optimized
2.0101 200	43.2%	2,509	1,534	96.0%	88.7%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	100.2%	2,201	3,043	96.6%	66.5%	Improvemen t Needed

Optimiz ation O pportun ities

Deploy 5
additional
AGVs in
Warehouse
3 to
increase
throughput
by 20%
• Imple

ment voicepicking 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