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: 77.0% 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	71.2%	1,038	2,768	97.4%	92.1%	Optimized
Center A Distribution Dallas, TX Center B	52.9%	1,334	3,437	95.2%	62.1%	Improvemen t Needed
Distribution Atlanta, GA Center C	85.0%	1,368	1,896	96.3%	73.8%	Improvemen t Needed
Distribution Los	99.5%	1,505	2,145	98.6%	94.6%	Optimized
Genter D Distribution Newark, NJ Center E	¹ 104.1%	2,878	3,911	99.0%	62.4%	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