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: 73

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	n Status
Distribution Chicago, IL	100.6%	1,217	3,507	96.8%	81.8%	Optimized
Center A Distribution Dallas, TX Center B	51.5%	2,716	3,626	95.4%	76.5%	Improvemen t Needed
Distribution Atlanta, GA Center C	36.9%	1,406	2,109	98.9%	70.8%	Improvemen t Needed
Distribution Los	50.8%	2,928	1,925	97.4%	82.0%	Optimized
Genter D Distribution Newark, NJ Center E	^A 55.0%	2,163	2,482	98.1%	74.0%	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