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: 49

Average Utilization: 75.0% 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	88.6%	1,652	2,284	95.3%	90.1%	Optimized
Center A Distribution Dallas, TX Center B	94.2%	1,186	1,532	97.8%	63.4%	Improvemen t Needed
Distribution Atlanta, GA Center C	93.2%	1,596	3,955	98.8%	67.9%	Improvemen t Needed
	88.8%	2,708	3,204	95.7%	81.8%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	75.4%	2,345	3,950	95.1%	71.7%	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