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: 44

Average Utilization: 84.4% 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		2,109	1,501	96.9%	92.1%	Optimized
Center A Distribution Dallas, TX		1,784	3,386	96.0%	81.3%	Optimized
Center B Distribution Atlanta, GA Center C	75.4%	2,612	1,736	99.3%	67.7%	Improvemen t Needed
Distribution Los	50.8%	1,075	3,506	95.3%	93.1%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	¹ 56.9%	2,177	1,715	98.1%	87.9%	Optimized

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