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: 80

Average Utilization: 81.3% 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		2,832	1,881	98.8%	91.1%	Optimized
Center A Distribution Dallas, TX	51.0%	1,243	2,782	98.8%	87.4%	Optimized
Center B Distribution Atlanta, GA Center C	95.8%	1,413	2,284	97.5%	65.3%	Improvemen t Needed
Distribution Los	55.7%	2,067	2,381	99.1%	81.1%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	^A 31.8%	1,086	3,488	99.0%	81.6%	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