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: 68

Average Utilization: 83.1% 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		2,154	3,711	98.0%	82.5%	Optimized
Center A Distribution Dallas, TX Center B	62.7%	2,888	1,989	98.9%	61.7%	Improvemen t Needed
Distribution Atlanta, GA	105.2%	2,814	1,755	98.5%	88.9%	Optimized
Center C Distribution Los	88.3%	1,387	3,683	98.9%	88.1%	Optimized
Center D Angeles, CA Center E	^A 61.4%	1,025	1,562	96.6%	94.5%	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