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: 25

Average Utilization: 85.1% 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 Center A	43.9%	1,005	1,648	98.3%	62.6%	Improvemen t Needed
Distribution Dallas, TX	103.9%	1,323	3,891	96.9%	94.0%	Optimized
Center B Distribution Atlanta, GA	53.6%	2,432	2,709	96.2%	93.9%	Optimized
Center C Distribution Los	58.8%	2,630	3,747	96.8%	88.2%	Optimized
Genter D Distribution Newark, NJ Center E	^A 71.3%	2,222	3,075	99.3%	86.6%	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