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: 50

Average Utilization: 84.9% 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	81.4%	1,773	2,307	97.8%	88.3%	Optimized
Center A Distribution Dallas, TX Center B	79.0%	1,627	3,304	95.2%	76.0%	Improvemen t Needed
Distribution Atlanta, GA	85.0%	2,917	3,613	95.1%	91.3%	Optimized
Center C Distribution Los	32.3%	1,814	2,581	96.8%	86.3%	Optimized
Genter D Distribution Newark, NJ Center E	^A 79.1%	2,708	2,753	98.4%	82.8%	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