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: 43

Average Utilization: 80.4% 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	51.4%	1,947	2,345	99.3%	85.9%	Optimized
Center A Distribution Dallas, TX Center B	78.1%	2,083	2,335	98.0%	70.8%	Improvemen t Needed
Distribution Atlanta, GA	40.0%	1,980	3,408	96.0%	83.2%	Optimized
Center C Distribution Los	72.5%	2,876	1,937	95.1%	80.6%	Optimized
Genter D Distribution Newark, NJ Center E	^A 60.5%	2,821	3,175	96.4%	81.7%	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