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: 39

Average Utilization: 86.0% 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	56.8%	1,482	2,432	98.4%	90.2%	Optimized
Center A Distribution Dallas, TX Center B	84.6%	2,740	3,924	97.3%	69.3%	Improvemen t Needed
Distribution Atlanta, GA	59.1%	2,869	1,956	96.1%	93.7%	Optimized
Center C Distribution Los	110.2%	1,642	2,961	96.2%	85.4%	Optimized
Center E Angeles, Content E	^A 111.5%	1,686	3,469	98.0%	91.4%	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