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: 48

Average Utilization: 84.0% 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	62.1%	1,583	1,935	98.0%	94.1%	Optimized
Center A Distribution Dallas, TX Center B	52.2%	2,374	2,711	96.3%	70.9%	Improvemen t Needed
Distribution Atlanta, GA	91.0%	2,920	3,569	98.5%	83.0%	Optimized
Center C Distribution Los	60.1%	2,211	3,923	99.4%	87.4%	Optimized
Center E Angeles, Content E	⁴ 43.5%	2,723	2,184	95.6%	84.6%	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