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: 32

Average Utilization: 85.3% 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	49.9%	1,606	2,275	97.4%	87.5%	Optimized
Center A Distribution Dallas, TX Center B	70.7%	1,391	3,215	98.2%	63.0%	Improvemen t Needed
Distribution Atlanta, GA	60.2%	2,141	1,922	97.7%	94.8%	Optimized
Center C Distribution Los	57.8%	2,717	1,565	97.7%	89.3%	Optimized
Genter D. Angeles, C.A. Distribution Newark, N.J. Center E.	⁴ 78.4%	1,418	3,389	95.1%	91.7%	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