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: 56

Average Utilization: 79.9% 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 Center A	56.2%	1,799	1,974	95.2%	77.6%	Improvemen t Needed
Distribution Dallas, TX Center B	88.9%	1,319	2,239	98.6%	61.5%	Improvemen t Needed
Distribution Atlanta, GA	71.1%	1,623	3,783	96.9%	94.8%	Optimized
Center C Distribution Los	68.5%	1,240	3,069	98.7%	92.7%	Optimized
Genter D Angeles, CA Distribution Newark, NJ Center E	⁴ 56.2%	1,071	2,675	95.3%	72.9%	Improvemen t Needed

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