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: 42

Average Utilization: 78.1% 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	108.0%	1,813	2,923	96.9%	77.9%	Improvemen t Needed
Distribution Dallas, TX Center B	69.0%	2,776	2,389	98.2%	65.0%	Improvemen t Needed
Distribution Atlanta, GA Center C	65.8%	1,814	3,484	99.0%	61.7%	Improvemen t Needed
Distribution Los	42.6%	2,852	3,440	98.3%	93.1%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	¹ 74.8%	2,663	2,398	96.6%	92.8%	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