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: 60

Average Utilization: 77.4% 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	58.3%	1,932	2,178	97.9%	64.9%	Improvemen t Needed
Distribution Dallas, TX Center B	79.3%	2,918	3,373	99.3%	72.6%	Improvemen t Needed
Distribution Atlanta, GA Center C	39.1%	2,128	3,949	99.3%	61.7%	Improvemen t Needed
Distribution Los	63.2%	1,672	3,198	95.8%	94.9%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	^A 61.4%	2,841	3,099	98.7%	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