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: 43

Average Utilization: 79.7% 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	Status
Distribution Chicago, IL Center A	46.4%	2,288	2,814	98.1%	77.0%	Improvemen t Needed
Distribution Dallas, TX Center B	55.4%	1,780	2,656	97.0%	64.8%	Improvemen t Needed
Distribution Atlanta, GA	94.9%	1,542	2,882	95.0%	92.3%	Optimized
Center C Distribution Los	58.4%	2,584	3,126	95.2%	88.8%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	⁴ 67.4%	1,283	2,007	98.2%	75.7%	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