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: 54

Average Utilization: 75.2% 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	48.7%	2,668	3,965	97.3%	72.4%	Improvemen t Needed
Distribution Dallas, TX Center B	91.3%	1,205	2,773	98.2%	73.3%	Improvemen t Needed
Distribution Atlanta, GA	99.4%	2,215	2,826	97.1%	84.9%	Optimized
Center C Distribution Los Center D Angeles, CA	91.5% A	1,411	3,421	97.2%	64.6%	Improvemen t Needed
Distribution Newark, NJ Center E	41.2%	1,060	3,499	95.9%	80.5%	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