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: 21

Average Utilization: 76.5% 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	69.0%	2,422	3,097	99.3%	77.1%	Improvemen t Needed
Distribution Dallas, TX Center B	110.4%	2,284	1,791	97.7%	62.6%	Improvemen t Needed
Distribution Atlanta, GA	97.8%	2,722	3,043	99.3%	81.1%	Optimized
Center C Distribution Los Center D Angeles, CA	54.6% A	1,682	3,923	95.6%	77.5%	Improvemen t Needed
Distribution Newark, NJ Center E	71.6%	2,098	2,095	98.5%	84.2%	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