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: 70

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	Status
Distribution Chicago, IL Center A	84.2%	2,695	2,411	96.4%	74.9%	Improvemen t Needed
Distribution Dallas, TX Center B	46.4%	2,089	3,257	95.8%	60.9%	Improvemen t Needed
Distribution Atlanta, GA	93.5%	2,243	3,990	97.8%	85.2%	Optimized
Center C Distribution Los Center D Angeles, CA	52.4% \	2,961	3,141	99.3%	60.8%	Improvemen t Needed
Distribution Newark, NJ Center E	32.6%	1,149	1,986	98.2%	94.2%	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