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: 57

Average Utilization: 81.6% 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	129.5%	2,402	3,423	98.0%	72.3%	Improvemen t Needed
Distribution Dallas, TX	88.6%	1,371	3,573	96.1%	91.2%	Optimized
Center B Distribution Atlanta, GA Center C	71.4%	2,944	2,473	96.0%	79.6%	Improvemen t Needed
Distribution Los Center D Angeles, CA	46.7% A	2,638	3,444	95.4%	73.7%	Improvemen t Needed
Distribution Newark, NJ Center E	61.6%	1,486	3,531	96.7%	91.2%	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