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: 51

Average Utilization: 80.5% 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	71.2%	2,414	3,101	98.6%	72.9%	Improvemen t Needed
Distribution Dallas, TX Center B	132.7%	2,473	2,531	96.9%	66.6%	Improvemen t Needed
Distribution Atlanta, GA	95.8%	1,420	3,621	98.3%	88.6%	Optimized
Center C Distribution Los Center D Angeles, CA	51.4% \	1,501	3,443	98.8%	79.6%	Improvemen t Needed
Distribution Newark, NJ Center E	65.3%	2,724	2,136	96.2%	94.6%	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