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: 52

Average Utilization: 82.9% 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	74.9%	1,583	2,274	98.3%	75.4%	Improvemen t Needed
Distribution Dallas, TX	59.7%	1,355	1,951	98.1%	91.3%	Optimized
Center B Distribution Atlanta, GA Center C	71.6%	1,714	2,683	95.0%	75.5%	Improvemen t Needed
Distribution Los Center D Angeles, CA	36.4% A	1,226	1,722	97.9%	77.4%	Improvemen t Needed
Distribution Newark, NJ Center E	42.1%	1,287	2,846	96.9%	94.7%	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