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: 49

Average Utilization: 73.3% 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	84.7%	2,886	2,357	97.3%	61.8%	Improvemen t Needed
Distribution Dallas, TX Center B	89.7%	1,187	1,697	96.6%	63.5%	Improvemen t Needed
Distribution Atlanta, GA Center C	52.3%	1,297	3,639	99.2%	75.4%	Improvemen t Needed
Distribution Los	93.6%	2,419	2,694	97.9%	81.4%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	^A 63.6%	1,073	3,186	98.5%	84.5%	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