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: 45

Average Utilization: 87.6% 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		2,162	1,653	96.8%	92.8%	Optimized
Center A Distribution Dallas, TX		1,395	2,052	98.2%	80.8%	Optimized
Center B Distribution Atlanta, GA Center C	75.5%	2,051	3,160	97.7%	79.2%	Improvemen t Needed
Distribution Los	73.7%	1,442	3,198	97.8%	93.3%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	^A 84.2%	2,657	3,715	96.7%	91.7%	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