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: 37

Average Utilization: 83.6% 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	53.9%	1,152	2,116	97.8%	88.1%	Optimized
Center A Distribution Dallas, TX Center B	66.2%	1,843	1,528	98.2%	70.9%	Improvemen t Needed
Distribution Atlanta, GA	104.4%	2,115	3,700	95.9%	86.8%	Optimized
Center C Distribution Los	44.2%	2,042	2,129	95.1%	86.5%	Optimized
Center D Angeles, CA Center E	^A 35.2%	2,880	2,724	97.6%	85.4%	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