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: 60

Average Utilization: 81.0% 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		1,763	3,670	98.5%	88.1%	Optimized
Center A Distribution Dallas, TX Center B	101.1%	2,842	3,563	97.2%	61.4%	Improvemen t Needed
Distribution Atlanta, GA	41.1%	2,696	1,728	97.1%	80.7%	Optimized
Center C Distribution Los	68.3%	1,141	1,684	95.4%	90.5%	Optimized
Center D Angeles, CA Center E	⁴ 86.7%	1,129	3,111	95.2%	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