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: 44

Average Utilization: 83.1% 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	77.3%	2,518	2,901	95.4%	80.6%	Optimized
Center A Distribution Dallas, TX		2,065	3,382	98.2%	94.7%	Optimized
Center B Distribution Atlanta, GA	48.9%	2,167	1,958	97.1%	80.2%	Optimized
Center C Distribution Los	42.1%	1,438	3,850	97.2%	84.7%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	^A 51.0%	2,650	3,584	96.4%	75.3%	Improvemen t Needed

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