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: 48

Average Utilization: 82.5% 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	78.4%	1,886	3,918	96.1%	84.9%	Optimized
Center A Distribution Dallas, TX Center B	111.0%	1,678	3,872	99.4%	66.0%	Improvemen t Needed
Distribution Atlanta, GA	75.2%	2,463	1,888	95.6%	87.8%	Optimized
Center C Distribution Los	46.9%	2,265	2,348	96.8%	82.1%	Optimized
Center D Angeles, CA Center E	^A 105.9%	2,314	3,330	99.2%	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