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: 36

Average Utilization: 82.9% 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	Status
Distribution Chicago, IL	66.5%	2,530	3,376	97.2%	80.8%	Optimized
Center A Distribution Dallas, TX		1,580	1,646	95.4%	94.1%	Optimized
Center B Distribution Atlanta, GA Center C	46.7%	2,579	3,535	97.7%	79.9%	Improvemen t Needed
Distribution Los	52.0%	1,691	2,956	99.1%	90.7%	Optimized
Center E Angeles, CA Center E	72.6%	2,663	3,226	95.6%	68.9%	Improvemen t Needed

Optimiz ation O pportun ities

Deploy 5
additional
AGVs in
Warehouse
3 to
increase
throughput
by 20%
• Imple
ment voice-

picking 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