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: 80.9% 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	n Status
Distribution Chicago, IL Center A	40.4%	2,539	1,548	98.5%	67.6%	Improvemen t Needed
Distribution Dallas, TX	61.0%	1,759	1,937	97.4%	89.1%	Optimized
Center B Distribution Atlanta, GA	74.7%	1,967	3,725	95.7%	94.4%	Optimized
Center C Distribution Los Center D Angeles, CA	54.8% \	2,174	3,798	96.7%	61.9%	Improvemen t Needed
Distribution Newark, NJ Center E	117.0%	1,894	3,684	96.7%	91.7%	Optimized

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