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: 61

Average Utilization: 76.7% 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 Center A	71.9%	1,361	3,959	99.1%	60.1%	Improvemen t Needed
,,	74.6%	1,044	3,783	98.1%	83.7%	Optimized
Center B Distribution Atlanta, GA	80.6%	1,642	3,392	95.2%	85.7%	Optimized
Center C Distribution Los Center D Angeles, CA	72.1% A	2,846	2,958	97.9%	72.5%	Improvemen t Needed
Distribution Newark, NJ Center E	52.8%	2,994	3,517	98.8%	81.4%	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