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: 81.2% Throughput Increase: 34.2% Labor Cost Reduction: 28.5%

ROI Period: 2.3 years

Warehouse Performance

Warehouse Lo	ocation	Capacity Used	Inbound/ Day	Outbound/ Day	Picking Accuracy	Automation Status Level	
Distribution C Center A	hicago, IL	89.1%	2,014	1,561	98.3%	75.3%	Improvemen t Needed
Distribution D	,	42.9%	2,441	3,739	95.3%	94.3%	Optimized
Center B Distribution A		79.0%	2,937	1,609	98.5%	87.3%	Optimized
Center C Distribution Lo Center D A	os ngeles, CA	42.0%	2,055	3,645	95.8%	64.1%	Improvemen t Needed
Distribution N Center E	ewark, NJ	101.8%	1,952	2,856	96.2%	84.7%	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