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: 33

Average Utilization: 80.4% 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	83.2%	1,482	3,272	96.4%	94.6%	Optimized
Center A Distribution Dallas, TX Center B	37.6%	1,768	3,733	97.1%	77.3%	Improvemen t Needed
Distribution Atlanta, GA Center C	45.9%	2,036	3,647	97.5%	60.0%	Improvemen t Needed
Distribution Los	58.5%	1,175	3,807	98.0%	81.8%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	^{\\} 88.7%	1,448	3,323	97.1%	88.0%	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