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: 48

Average Utilization: 77.6% Throughput Increase: 34.2% Labor Cost Reduction: 28.5%

ROI Period: 2.3 years

Warehouse Performance

Warehouse Loca	tion Capacity Used	Inbound/ Day	Outbound/ Day	Picking Accuracy	Automation Status Level	
Distribution Chica Center A	ago, IL 73.4%	2,520	3,887	96.6%	72.3%	Improvemen t Needed
	s, TX 77.8%	2,050	2,878	95.0%	80.1%	Optimized
Center B Distribution Atlan Center C	ta, GA 66.5%	2,252	2,186	99.3%	76.4%	Improvemen t Needed
Distribution Los Center D Ange	71.4% les, CA	1,635	2,284	98.0%	66.6%	Improvemen t Needed
Distribution Newa	ark, NJ 83.0%	1,122	3,180	96.4%	92.6%	Optimized

Optimiz ation O pportun ities

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

ment voicepicking 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