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: 55

Average Utilization: 77.7% 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 Status Level	
	Distribution Chicago, IL	62.5%	1,120	2,130	95.1%	91.6%	Optimized
	Center A Distribution Dallas, TX	80.7%	1,208	3,297	97.8%	91.7%	Optimized
	Center B Distribution Atlanta, GA Center C	93.7%	1,765	2,021	97.5%	73.8%	Improvemen t Needed
	Distribution Los Center D Angeles, CA	116.1% \	2,028	1,547	96.9%	69.8%	Improvemen t Needed
	Distribution Newark, NJ Center E	69.0%	1,095	2,747	96.9%	61.5%	Improvemen t Needed

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