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: 45

Average Utilization: 79.3% Throughput Increase: 34.2% Labor Cost Reduction: 28.5%

ROI Period: 2.3 years

Warehouse Performance

Warehouse Location		on Capacity Used	/ Inbound/ Day	Outbound/ Day	Picking Accuracy	Automation Status Level	
	Distribution Chicago	o, IL 64.9%	1,628	3,409	95.2%	94.3%	Optimized
	Center A Distribution Dallas, Center B	TX 47.9%	2,925	3,503	98.2%	76.0%	Improvemen t Needed
	Distribution Atlanta,	GA 42.0%	2,013	3,867	97.9%	87.4%	Optimized
	Center C Distribution Los Center D Angeles	45.7% s, CA	2,707	2,971	98.3%	61.7%	Improvemen t Needed
	Distribution Newark Center E	, NJ 55.8%	2,310	3,379	96.5%	77.3%	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