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: 60

Average Utilization: 76.0% 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	Status
Distribution Chicago, IL		1,713	2,988	98.9%	86.1%	Optimized
Center A Distribution Dallas, TX		2,764	3,671	95.7%	92.3%	Optimized
Center B Distribution Atlanta, GA Center C	102.4%	1,540	2,704	96.5%	68.9%	Improvemen t Needed
Distribution Los Center D Angeles, CA	73.8% \	1,597	3,708	98.0%	62.7%	Improvemen t Needed
Distribution Newark, NJ Center E	91.8%	2,649	2,062	96.0%	69.9%	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