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: 50

Average Utilization: 76.1% 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	35.8%	2,720	2,360	95.6%	91.6%	Optimized
Center A Distribution Dallas, TX Center B	69.9%	2,182	3,836	98.2%	65.3%	Improvemen t Needed
Distribution Atlanta, GA Center C	45.0%	2,934	2,636	96.5%	69.3%	Improvemen t Needed
Distribution Los	91.4%	1,054	1,799	96.7%	83.0%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	72.6%	2,039	1,623	98.9%	71.2%	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