Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 63
Average Utilization: 78.1%
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 Center A	Chicago, IL	66.4%	1,856	2,812	98.6%	68.7%	Improvement Needed
Distribution Center B	Dallas, TX	90.0%	1,362	1,669	98.9%	78.6%	Improvement Needed
Distribution Center C	Atlanta, GA	74.6%	2,992	3,187	98.4%	89.1%	Optimized
Distribution Center D	Los Angeles, CA	94.4%	2,979	1,508	99.0%	87.8%	Optimized
Distribution Center E	Newark, NJ	64.7%	2,056	3,002	95.2%	66.2%	Improvement Needed

Optimization Opportunities

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

ment voice-picking system to improve accuracy to 99.8%

- Upgrade WMS integration for real-time inventory visibility
- Add automated sortation system for small package handling
- Implement predictive analytics for demand-based staffing
- Consider AS/RS system for high-velocity SKUs