Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 63
Average Utilization: 80.6%
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	50.3%	2,237	3,225	96.8%	94.8%	Optimized
Distribution Center B	Dallas, TX	85.9%	2,728	2,383	96.7%	69.8%	Improvement Needed
Distribution Center C	Atlanta, GA	72.2%	1,190	1,864	97.5%	87.2%	Optimized
Distribution Center D	Los Angeles, CA	90.4%	2,698	3,734	99.0%	87.1%	Optimized
Distribution Center E	Newark, NJ	78.4%	2,822	2,998	98.1%	64.1%	Improvement Needed

Optimization Opportunities

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