Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 59
Average Utilization: 82.4%
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	72.4%	2,227	2,720	97.0%	83.4%	Optimized
Distribution Center B	Dallas, TX	67.5%	2,506	1,804	95.3%	71.0%	Improvement Needed
Distribution Center C	Atlanta, GA	97.8%	1,042	2,950	98.1%	81.5%	Optimized
Distribution Center D	Los Angeles, CA	118.8%	2,400	1,503	96.6%	83.3%	Optimized
Distribution Center E	Newark, NJ	44.7%	2,553	2,180	96.9%	92.5%	Optimized

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