Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 44
Average Utilization: 73.8%
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	89.4%	1,230	1,984	98.0%	72.5%	Improvement Needed
Distribution Center B	Dallas, TX	88.5%	2,931	3,615	96.3%	77.0%	Improvement Needed
Distribution Center C	Atlanta, GA	86.6%	1,171	2,824	95.6%	62.3%	Improvement Needed
Distribution Center D	Los Angeles, CA	91.1%	2,121	1,833	95.8%	81.5%	Optimized
Distribution Center E	Newark, NJ	48.9%	1,284	1,718	95.7%	75.6%	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