Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 56
Average Utilization: 73.3%
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	95.2%	2,000	2,440	98.9%	74.1%	Improvement Needed
Distribution Center B	Dallas, TX	79.9%	1,591	3,489	95.2%	68.3%	Improvement Needed
Distribution Center C	Atlanta, GA	63.5%	1,580	2,623	95.9%	61.8%	Improvement Needed
Distribution Center D	Los Angeles, CA	71.2%	1,567	1,611	96.8%	86.0%	Optimized
Distribution Center E	Newark, NJ	103.1%	2,886	1,734	97.9%	76.2%	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