Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 48
Average Utilization: 81.7%
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	77.2%	1,729	1,930	95.9%	85.8%	Optimized
Distribution Center B	Dallas, TX	92.0%	2,208	2,856	95.3%	84.3%	Optimized
Distribution Center C	Atlanta, GA	68.6%	2,243	1,541	96.1%	91.5%	Optimized
Distribution Center D	Los Angeles, CA	72.5%	1,876	3,415	99.2%	82.3%	Optimized
Distribution Center E	Newark, NJ	85.3%	1,068	3,351	96.4%	64.6%	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