Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 50
Average Utilization: 76.5%
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	79.8%	2,737	2,201	99.3%	77.6%	Improvement Needed
Distribution Center B	Dallas, TX	41.0%	1,274	2,287	95.2%	76.2%	Improvement Needed
Distribution Center C	Atlanta, GA	78.8%	1,553	3,769	97.4%	79.6%	Improvement Needed
Distribution Center D	Los Angeles, CA	56.7%	2,769	3,270	97.9%	61.8%	Improvement Needed
Distribution Center E	Newark, NJ	106.0%	1,021	2,233	96.3%	87.2%	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