Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 54
Average Utilization: 75.5%
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	83.2%	1,303	3,562	96.2%	88.3%	Optimized
Distribution Center B	Dallas, TX	72.7%	1,455	3,577	99.3%	65.9%	Improvement Needed
Distribution Center C	Atlanta, GA	98.3%	2,746	3,215	97.7%	67.8%	Improvement Needed
Distribution Center D	Los Angeles, CA	80.7%	2,331	3,088	95.6%	76.3%	Improvement Needed
Distribution Center E	Newark, NJ	110.5%	1,544	3,137	97.0%	79.3%	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