Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 54
Average Utilization: 72.1%
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	80.4%	1,577	2,618	98.0%	81.4%	Optimized
Distribution Center B	Dallas, TX	86.8%	1,842	3,981	98.5%	63.7%	Improvement Needed
Distribution Center C	Atlanta, GA	46.0%	1,436	3,667	96.9%	65.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	56.5%	2,322	2,971	97.3%	73.2%	Improvement Needed
Distribution Center E	Newark, NJ	85.4%	2,922	2,401	98.4%	77.3%	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