Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 68
Average Utilization: 84.9%
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	72.5%	1,478	3,869	95.9%	81.1%	Optimized
Distribution Center B	Dallas, TX	66.1%	1,024	3,082	98.5%	92.6%	Optimized
Distribution Center C	Atlanta, GA	68.6%	1,071	2,306	97.6%	91.2%	Optimized
Distribution Center D	Los Angeles, CA	119.0%	1,474	3,415	98.8%	81.1%	Optimized
Distribution Center E	Newark, NJ	77.4%	2,090	3,998	97.2%	78.4%	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