Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 49
Average Utilization: 76.7%
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	96.6%	1,410	2,013	96.1%	66.8%	Improvement Needed
Distribution Center B	Dallas, TX	65.5%	1,137	2,133	96.4%	78.2%	Improvement Needed
Distribution Center C	Atlanta, GA	47.9%	2,726	2,307	96.3%	77.8%	Improvement Needed
Distribution Center D	Los Angeles, CA	54.1%	1,463	1,918	96.2%	86.9%	Optimized
Distribution Center E	Newark, NJ	53.1%	1,300	2,805	98.6%	73.8%	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