Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 67
Average Utilization: 71.6%
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	64.9%	1,740	1,838	97.2%	62.4%	Improvement Needed
Distribution Center B	Dallas, TX	77.1%	1,630	2,844	99.3%	78.0%	Improvement Needed
Distribution Center C	Atlanta, GA	118.6%	2,768	3,934	98.3%	63.6%	Improvement Needed
Distribution Center D	Los Angeles, CA	63.4%	1,631	3,162	99.4%	66.0%	Improvement Needed
Distribution Center E	Newark, NJ	77.4%	2,623	3,294	98.3%	88.0%	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