Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 34
Average Utilization: 80.2%
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	60.3%	1,867	2,198	97.0%	93.3%	Optimized
Distribution Center B	Dallas, TX	98.9%	2,084	1,985	97.9%	78.5%	Improvement Needed
Distribution Center C	Atlanta, GA	123.3%	2,528	2,728	97.3%	81.7%	Optimized
Distribution Center D	Los Angeles, CA	114.6%	1,460	2,296	95.4%	67.0%	Improvement Needed
Distribution Center E	Newark, NJ	53.4%	1,276	1,552	97.1%	80.4%	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