Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 47
Average Utilization: 79.6%
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	81.3%	1,276	3,444	98.7%	94.0%	Optimized
Distribution Center B	Dallas, TX	59.3%	1,684	3,327	96.0%	81.0%	Optimized
Distribution Center C	Atlanta, GA	51.9%	1,835	3,222	98.9%	89.3%	Optimized
Distribution Center D	Los Angeles, CA	38.7%	1,919	3,717	99.3%	72.0%	Improvement Needed
Distribution Center E	Newark, NJ	46.5%	1,199	1,780	98.7%	61.6%	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