Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 60
Average Utilization: 80.6%
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	108.7%	1,016	3,875	96.7%	83.6%	Optimized
Distribution Center B	Dallas, TX	79.9%	1,502	1,894	96.2%	89.4%	Optimized
Distribution Center C	Atlanta, GA	102.2%	1,189	2,177	98.0%	78.6%	Improvement Needed
Distribution Center D	Los Angeles, CA	50.5%	2,901	2,015	99.0%	64.7%	Improvement Needed
Distribution Center E	Newark, NJ	90.9%	1,580	3,461	99.1%	86.8%	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