Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 44
Average Utilization: 78.5%
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	114.4%	2,039	2,581	99.2%	81.3%	Optimized
Distribution Center B	Dallas, TX	96.7%	2,534	2,946	95.4%	94.7%	Optimized
Distribution Center C	Atlanta, GA	50.7%	2,687	2,495	97.2%	63.4%	Improvement Needed
Distribution Center D	Los Angeles, CA	38.6%	2,697	2,550	95.8%	63.6%	Improvement Needed
Distribution Center E	Newark, NJ	52.2%	2,338	3,123	96.0%	89.4%	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