Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 31
Average Utilization: 81.1%
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	88.2%	1,495	3,746	96.5%	90.3%	Optimized
Distribution Center B	Dallas, TX	108.2%	2,584	3,218	96.4%	81.4%	Optimized
Distribution Center C	Atlanta, GA	55.0%	1,097	3,267	97.5%	77.9%	Improvement Needed
Distribution Center D	Los Angeles, CA	48.7%	2,857	3,319	97.6%	70.4%	Improvement Needed
Distribution Center E	Newark, NJ	101.1%	2,871	3,960	99.2%	85.6%	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