Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 36
Average Utilization: 78.3%
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	76.7%	2,499	1,584	97.9%	62.1%	Improvement Needed
Distribution Center B	Dallas, TX	52.4%	1,936	3,711	96.6%	84.0%	Optimized
Distribution Center C	Atlanta, GA	58.6%	1,840	2,229	95.9%	69.0%	Improvement Needed
Distribution Center D	Los Angeles, CA	63.2%	1,769	2,865	98.6%	92.6%	Optimized
Distribution Center E	Newark, NJ	67.1%	1,188	3,413	95.8%	83.5%	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