Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 64
Average Utilization: 79.9%
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	77.9%	1,208	3,512	96.8%	86.2%	Optimized
Distribution Center B	Dallas, TX	72.1%	1,896	3,212	99.4%	64.8%	Improvement Needed
Distribution Center C	Atlanta, GA	124.4%	1,239	2,555	96.3%	87.0%	Optimized
Distribution Center D	Los Angeles, CA	95.2%	2,219	2,819	98.2%	85.3%	Optimized
Distribution Center E	Newark, NJ	92.7%	1,111	1,506	95.0%	76.3%	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