Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 37
Average Utilization: 80.5%
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	91.8%	2,969	1,820	96.5%	93.1%	Optimized
Distribution Center B	Dallas, TX	116.9%	1,052	1,615	96.3%	81.4%	Optimized
Distribution Center C	Atlanta, GA	77.1%	1,449	3,858	99.1%	74.4%	Improvement Needed
Distribution Center D	Los Angeles, CA	56.0%	2,513	2,248	96.4%	72.2%	Improvement Needed
Distribution Center E	Newark, NJ	106.7%	1,842	2,668	95.9%	81.6%	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