Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 44
Average Utilization: 81.8%
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	44.7%	2,876	3,587	97.1%	84.1%	Optimized
Distribution Center B	Dallas, TX	50.6%	2,848	3,419	95.1%	84.2%	Optimized
Distribution Center C	Atlanta, GA	31.4%	2,792	3,758	97.7%	92.5%	Optimized
Distribution Center D	Los Angeles, CA	43.8%	2,256	2,436	96.6%	64.1%	Improvement Needed
Distribution Center E	Newark, NJ	39.6%	2,291	2,753	97.2%	84.1%	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