Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 36
Average Utilization: 77.8%
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	61.6%	1,239	2,053	96.4%	80.5%	Optimized
Distribution Center B	Dallas, TX	75.4%	2,945	3,798	99.1%	69.3%	Improvement Needed
Distribution Center C	Atlanta, GA	57.9%	2,644	1,526	95.7%	79.0%	Improvement Needed
Distribution Center D	Los Angeles, CA	102.0%	2,095	2,165	97.1%	69.1%	Improvement Needed
Distribution Center E	Newark, NJ	72.8%	1,022	3,639	96.4%	91.3%	Optimized

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Imple

ment 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