Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 47
Average Utilization: 79.7%
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	57.3%	1,955	3,887	96.4%	74.2%	Improvement Needed
Distribution Center B	Dallas, TX	91.4%	2,686	2,648	95.7%	79.6%	Improvement Needed
Distribution Center C	Atlanta, GA	74.5%	1,141	2,292	96.8%	90.8%	Optimized
Distribution Center D	Los Angeles, CA	52.4%	1,309	3,482	97.7%	83.3%	Optimized
Distribution Center E	Newark, NJ	66.0%	1,341	3,058	97.2%	70.9%	Improvement Needed

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