Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 47
Average Utilization: 79.0%
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	75.5%	1,144	2,168	95.5%	89.9%	Optimized
Distribution Center B	Dallas, TX	50.7%	2,896	3,738	97.8%	70.3%	Improvement Needed
Distribution Center C	Atlanta, GA	74.3%	1,013	2,269	95.5%	83.1%	Optimized
Distribution Center D	Los Angeles, CA	114.2%	1,105	2,607	97.4%	79.5%	Improvement Needed
Distribution Center E	Newark, NJ	76.1%	2,749	2,025	96.0%	72.1%	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