Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 54
Average Utilization: 78.2%
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	63.7%	1,240	2,461	97.7%	79.1%	Improvement Needed
Distribution Center B	Dallas, TX	52.0%	1,113	2,067	98.3%	87.4%	Optimized
Distribution Center C	Atlanta, GA	59.1%	1,688	3,457	95.7%	86.3%	Optimized
Distribution Center D	Los Angeles, CA	110.9%	1,332	1,683	95.8%	76.5%	Improvement Needed
Distribution Center E	Newark, NJ	50.2%	1,831	2,184	95.4%	61.9%	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