Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 61
Average Utilization: 75.9%
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	89.6%	1,887	2,677	95.2%	82.3%	Optimized
Distribution Center B	Dallas, TX	52.7%	1,164	2,481	95.4%	78.5%	Improvement Needed
Distribution Center C	Atlanta, GA	46.7%	2,448	1,792	95.1%	81.5%	Optimized
Distribution Center D	Los Angeles, CA	37.5%	2,585	3,815	99.1%	75.7%	Improvement Needed
Distribution Center E	Newark, NJ	67.0%	1,883	3,042	95.8%	61.7%	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