Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 58
Average Utilization: 72.8%
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	64.3%	2,563	3,431	97.4%	71.5%	Improvement Needed
Distribution Center B	Dallas, TX	94.0%	1,731	1,500	97.7%	72.6%	Improvement Needed
Distribution Center C	Atlanta, GA	50.9%	1,220	2,373	97.6%	67.9%	Improvement Needed
Distribution Center D	Los Angeles, CA	104.3%	2,065	2,142	97.7%	70.4%	Improvement Needed
Distribution Center E	Newark, NJ	81.7%	2,471	3,091	95.1%	81.7%	Optimized

Optimization Opportunities

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

- Implement 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