Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 59
Average Utilization: 71.4%
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	52.5%	2,280	3,121	97.2%	70.5%	Improvement Needed
Distribution Center B	Dallas, TX	70.4%	1,163	1,573	96.8%	70.7%	Improvement Needed
Distribution Center C	Atlanta, GA	61.2%	1,466	2,026	95.1%	71.4%	Improvement Needed
Distribution Center D	Los Angeles, CA	61.4%	1,060	1,559	97.5%	64.0%	Improvement Needed
Distribution Center E	Newark, NJ	63.2%	2,019	2,107	98.2%	80.2%	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