Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 52
Average Utilization: 71.7%
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	80.6%	2,101	3,943	95.5%	74.7%	Improvement Needed
Distribution Center B	Dallas, TX	69.1%	1,702	3,847	98.5%	66.6%	Improvement Needed
Distribution Center C	Atlanta, GA	82.7%	1,848	1,704	95.8%	81.2%	Optimized
Distribution Center D	Los Angeles, CA	87.8%	2,809	2,161	98.7%	70.1%	Improvement Needed
Distribution Center E	Newark, NJ	50.6%	2,036	2,959	96.4%	66.2%	Improvement Needed

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