Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 68
Average Utilization: 79.3%
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	78.8%	1,356	3,334	95.9%	66.0%	Improvement Needed
Distribution Center B	Dallas, TX	67.8%	2,248	2,098	95.0%	92.3%	Optimized
Distribution Center C	Atlanta, GA	75.8%	2,291	3,516	98.5%	65.2%	Improvement Needed
Distribution Center D	Los Angeles, CA	63.5%	2,195	2,132	95.3%	82.9%	Optimized
Distribution Center E	Newark, NJ	94.3%	1,018	3,614	96.7%	90.0%	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