Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 36
Average Utilization: 82.0%
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	65.7%	2,123	3,109	95.0%	81.9%	Optimized
Distribution Center B	Dallas, TX	44.4%	1,894	3,838	98.8%	70.5%	Improvement Needed
Distribution Center C	Atlanta, GA	61.4%	1,138	2,756	97.1%	93.2%	Optimized
Distribution Center D	Los Angeles, CA	46.2%	1,137	2,463	96.3%	72.4%	Improvement Needed
Distribution Center E	Newark, NJ	90.9%	1,260	2,516	95.0%	91.8%	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