Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 48
Average Utilization: 84.7%
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	45.6%	1,683	2,616	95.2%	81.3%	Optimized
Distribution Center B	Dallas, TX	40.7%	2,494	2,828	95.9%	91.4%	Optimized
Distribution Center C	Atlanta, GA	92.2%	1,104	2,022	95.2%	83.5%	Optimized
Distribution Center D	Los Angeles, CA	85.0%	1,449	1,563	97.9%	83.0%	Optimized
Distribution Center E	Newark, NJ	57.7%	1,456	3,745	98.0%	84.4%	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