Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 42
Average Utilization: 78.3%
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	106.0%	2,067	2,280	97.4%	61.2%	Improvement Needed
Distribution Center B	Dallas, TX	70.8%	2,133	3,590	95.5%	84.4%	Optimized
Distribution Center C	Atlanta, GA	59.1%	2,119	3,751	97.0%	61.7%	Improvement Needed
Distribution Center D	Los Angeles, CA	65.5%	1,746	2,182	97.6%	92.6%	Optimized
Distribution Center E	Newark, NJ	53.3%	1,838	3,657	97.2%	91.7%	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