Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 58
Average Utilization: 76.1%
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	70.9%	2,899	3,247	96.8%	86.9%	Optimized
Distribution Center B	Dallas, TX	84.1%	2,289	2,676	95.0%	85.2%	Optimized
Distribution Center C	Atlanta, GA	124.5%	2,485	2,737	97.8%	64.3%	Improvement Needed
Distribution Center D	Los Angeles, CA	59.0%	1,201	3,495	98.9%	62.7%	Improvement Needed
Distribution Center E	Newark, NJ	52.3%	1,033	3,869	96.8%	81.1%	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