Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 64
Average Utilization: 79.1%
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	62.7%	1,153	3,892	95.5%	80.9%	Optimized
Distribution Center B	Dallas, TX	69.3%	1,679	3,137	96.2%	66.7%	Improvement Needed
Distribution Center C	Atlanta, GA	95.2%	1,070	3,259	95.8%	91.2%	Optimized
Distribution Center D	Los Angeles, CA	65.4%	1,056	1,900	95.6%	74.3%	Improvement Needed
Distribution Center E	Newark, NJ	81.4%	2,691	1,791	97.9%	82.3%	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