Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 50
Average Utilization: 83.1%
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	49.7%	2,940	2,785	97.8%	94.9%	Optimized
Distribution Center B	Dallas, TX	52.9%	2,536	3,808	95.7%	89.7%	Optimized
Distribution Center C	Atlanta, GA	37.4%	1,620	3,025	97.5%	71.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	80.8%	2,563	1,513	99.2%	85.3%	Optimized
Distribution Center E	Newark, NJ	82.7%	1,346	2,797	95.1%	74.5%	Improvement Needed

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