Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 34
Average Utilization: 75.8%
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	61.4%	2,531	2,632	98.8%	90.1%	Optimized
Distribution Center B	Dallas, TX	47.0%	1,671	1,666	96.6%	73.4%	Improvement Needed
Distribution Center C	Atlanta, GA	58.3%	2,396	3,370	95.8%	77.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	105.5%	1,420	1,803	95.8%	68.4%	Improvement Needed
Distribution Center E	Newark, NJ	40.3%	1,980	3,965	97.7%	70.0%	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