Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 41
Average Utilization: 75.9%
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	55.6%	1,761	3,726	97.8%	92.7%	Optimized
Distribution Center B	Dallas, TX	91.0%	1,055	2,932	97.8%	75.8%	Improvement Needed
Distribution Center C	Atlanta, GA	68.5%	2,865	1,655	95.6%	62.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	72.9%	1,658	3,924	98.9%	76.2%	Improvement Needed
Distribution Center E	Newark, NJ	96.1%	1,240	3,986	98.8%	72.2%	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