Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 56
Average Utilization: 83.9%
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	103.5%	1,366	3,870	97.4%	81.2%	Optimized
Distribution Center B	Dallas, TX	56.4%	1,924	1,690	96.1%	92.0%	Optimized
Distribution Center C	Atlanta, GA	48.3%	2,535	3,695	99.2%	81.8%	Optimized
Distribution Center D	Los Angeles, CA	79.3%	2,693	2,853	97.3%	94.9%	Optimized
Distribution Center E	Newark, NJ	52.7%	2,832	1,754	98.5%	69.4%	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