Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 49
Average Utilization: 82.9%
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	98.5%	2,711	3,526	96.9%	81.7%	Optimized
Distribution Center B	Dallas, TX	70.6%	2,767	2,005	96.5%	83.8%	Optimized
Distribution Center C	Atlanta, GA	51.4%	2,516	2,630	97.4%	85.1%	Optimized
Distribution Center D	Los Angeles, CA	70.8%	1,372	3,529	98.7%	73.1%	Improvement Needed
Distribution Center E	Newark, NJ	86.2%	1,768	3,973	96.4%	90.8%	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