Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 36
Average Utilization: 84.2%
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	88.2%	1,602	3,493	95.9%	84.3%	Optimized
Distribution Center B	Dallas, TX	69.5%	2,120	1,698	98.9%	91.4%	Optimized
Distribution Center C	Atlanta, GA	53.0%	2,970	3,423	96.7%	93.3%	Optimized
Distribution Center D	Los Angeles, CA	59.4%	2,440	2,720	99.4%	62.8%	Improvement Needed
Distribution Center E	Newark, NJ	64.3%	1,485	1,736	96.6%	89.0%	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