Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 37
Average Utilization: 85.9%
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	61.8%	2,205	1,914	95.3%	94.6%	Optimized
Distribution Center B	Dallas, TX	128.4%	2,493	3,328	97.2%	90.5%	Optimized
Distribution Center C	Atlanta, GA	47.8%	2,073	2,623	96.1%	64.4%	Improvement Needed
Distribution Center D	Los Angeles, CA	59.8%	1,221	1,896	95.9%	93.3%	Optimized
Distribution Center E	Newark, NJ	52.9%	1,377	2,898	99.5%	86.7%	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