Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 39
Average Utilization: 85.2%
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	43.0%	1,114	3,435	96.3%	90.4%	Optimized
Distribution Center B	Dallas, TX	77.4%	2,769	3,587	95.8%	76.7%	Improvement Needed
Distribution Center C	Atlanta, GA	76.9%	2,303	3,017	98.9%	85.4%	Optimized
Distribution Center D	Los Angeles, CA	63.3%	2,886	2,521	96.9%	85.6%	Optimized
Distribution Center E	Newark, NJ	56.2%	1,549	2,739	98.3%	87.8%	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