Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 52
Average Utilization: 86.1%
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	38.9%	2,115	2,195	96.8%	88.2%	Optimized
Distribution Center B	Dallas, TX	63.8%	1,634	3,592	99.4%	76.9%	Improvement Needed
Distribution Center C	Atlanta, GA	103.2%	1,133	3,124	99.0%	88.6%	Optimized
Distribution Center D	Los Angeles, CA	39.0%	2,662	3,460	95.7%	84.6%	Optimized
Distribution Center E	Newark, NJ	97.2%	1,456	2,482	97.4%	92.3%	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