Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 51
Average Utilization: 81.9%
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	67.3%	1,261	2,844	95.4%	82.7%	Optimized
Distribution Center B	Dallas, TX	97.8%	1,002	3,064	95.5%	84.7%	Optimized
Distribution Center C	Atlanta, GA	81.1%	1,461	2,823	97.2%	86.3%	Optimized
Distribution Center D	Los Angeles, CA	58.0%	2,560	3,032	97.2%	75.9%	Improvement Needed
Distribution Center E	Newark, NJ	69.9%	2,207	3,752	99.0%	80.1%	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