Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 52
Average Utilization: 84.3%
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	73.4%	1,883	2,552	95.2%	80.7%	Optimized
Distribution Center B	Dallas, TX	70.4%	1,892	2,202	97.3%	94.2%	Optimized
Distribution Center C	Atlanta, GA	51.7%	2,531	3,230	99.4%	66.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	52.8%	1,744	3,926	98.1%	92.4%	Optimized
Distribution Center E	Newark, NJ	41.9%	2,246	2,997	99.3%	88.0%	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