Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 28
Average Utilization: 77.2%
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	97.4%	2,943	3,534	96.8%	81.0%	Optimized
Distribution Center B	Dallas, TX	108.0%	1,121	3,484	95.6%	72.5%	Improvement Needed
Distribution Center C	Atlanta, GA	109.7%	2,976	1,932	97.6%	60.7%	Improvement Needed
Distribution Center D	Los Angeles, CA	48.2%	1,315	1,798	97.8%	84.8%	Optimized
Distribution Center E	Newark, NJ	50.7%	2,947	1,769	95.2%	87.0%	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