Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 32
Average Utilization: 82.6%
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	90.9%	2,765	2,888	98.1%	75.2%	Improvement Needed
Distribution Center B	Dallas, TX	39.7%	2,724	3,273	99.3%	68.1%	Improvement Needed
Distribution Center C	Atlanta, GA	101.4%	2,384	1,811	98.7%	92.3%	Optimized
Distribution Center D	Los Angeles, CA	63.9%	2,130	2,514	96.4%	93.4%	Optimized
Distribution Center E	Newark, NJ	84.9%	2,200	3,353	95.9%	84.1%	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