Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 60
Average Utilization: 72.0%
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	78.9%	2,946	2,187	99.1%	83.8%	Optimized
Distribution Center B	Dallas, TX	118.2%	2,523	2,030	96.5%	67.9%	Improvement Needed
Distribution Center C	Atlanta, GA	72.4%	2,910	2,261	96.5%	61.9%	Improvement Needed
Distribution Center D	Los Angeles, CA	110.3%	2,871	1,709	97.1%	66.1%	Improvement Needed
Distribution Center E	Newark, NJ	70.9%	1,483	2,808	95.5%	80.5%	Optimized

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Imple

ment 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