Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 57
Average Utilization: 72.6%
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	79.5%	2,333	2,352	95.3%	65.9%	Improvement Needed
Distribution Center B	Dallas, TX	87.6%	2,376	2,103	98.0%	61.1%	Improvement Needed
Distribution Center C	Atlanta, GA	64.0%	1,058	1,812	96.8%	69.6%	Improvement Needed
Distribution Center D	Los Angeles, CA	71.6%	2,475	1,896	95.6%	81.4%	Optimized
Distribution Center E	Newark, NJ	54.4%	1,016	1,751	97.7%	85.1%	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