Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 43
Average Utilization: 79.7%
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	103.7%	1,567	2,461	97.0%	84.1%	Optimized
Distribution Center B	Dallas, TX	95.0%	2,589	3,540	99.0%	76.7%	Improvement Needed
Distribution Center C	Atlanta, GA	94.9%	1,308	3,789	95.0%	77.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	92.8%	2,749	3,352	95.3%	81.6%	Optimized
Distribution Center E	Newark, NJ	36.6%	1,680	3,911	95.9%	79.2%	Improvement Needed

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