Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 38
Average Utilization: 74.8%
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	95.2%	1,155	2,308	97.6%	66.8%	Improvement Needed
Distribution Center B	Dallas, TX	102.5%	1,346	2,073	98.4%	73.2%	Improvement Needed
Distribution Center C	Atlanta, GA	41.8%	2,001	2,406	97.9%	60.8%	Improvement Needed
Distribution Center D	Los Angeles, CA	89.6%	1,491	2,535	98.7%	92.1%	Optimized
Distribution Center E	Newark, NJ	61.4%	1,351	2,605	99.2%	81.4%	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