Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 46
Average Utilization: 78.8%
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	35.3%	2,045	1,909	97.4%	71.0%	Improvement Needed
Distribution Center B	Dallas, TX	63.2%	1,316	2,466	99.0%	94.5%	Optimized
Distribution Center C	Atlanta, GA	120.9%	1,350	2,533	99.4%	76.2%	Improvement Needed
Distribution Center D	Los Angeles, CA	101.5%	1,854	3,140	96.9%	69.6%	Improvement Needed
Distribution Center E	Newark, NJ	89.7%	2,495	3,827	96.2%	82.6%	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