Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 47
Average Utilization: 80.0%
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	110.0%	2,450	2,207	98.8%	70.3%	Improvement Needed
Distribution Center B	Dallas, TX	71.4%	2,174	2,181	96.1%	80.8%	Optimized
Distribution Center C	Atlanta, GA	91.0%	1,174	2,644	97.4%	71.8%	Improvement Needed
Distribution Center D	Los Angeles, CA	102.7%	2,171	2,457	97.2%	94.7%	Optimized
Distribution Center E	Newark, NJ	47.4%	1,214	2,235	98.6%	82.4%	Optimized

Optimization Opportunities

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