Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 75
Average Utilization: 81.4%
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	47.5%	1,586	2,671	95.5%	88.0%	Optimized
Distribution Center B	Dallas, TX	90.9%	2,829	2,175	97.5%	86.2%	Optimized
Distribution Center C	Atlanta, GA	91.5%	1,811	2,624	96.3%	74.4%	Improvement Needed
Distribution Center D	Los Angeles, CA	37.6%	2,885	2,424	97.2%	68.2%	Improvement Needed
Distribution Center E	Newark, NJ	30.8%	2,219	3,936	98.5%	90.2%	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