Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 42
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	61.8%	2,873	3,417	99.4%	81.5%	Optimized
Distribution Center B	Dallas, TX	48.6%	2,835	1,658	97.6%	93.1%	Optimized
Distribution Center C	Atlanta, GA	62.9%	1,488	3,835	95.8%	70.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	51.2%	1,336	1,726	97.9%	80.2%	Optimized
Distribution Center E	Newark, NJ	83.8%	2,120	1,952	97.9%	68.9%	Improvement Needed

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