Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 62
Average Utilization: 76.0%
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	66.7%	1,531	3,364	96.3%	82.4%	Optimized
Distribution Center B	Dallas, TX	61.7%	2,340	2,370	99.2%	82.0%	Optimized
Distribution Center C	Atlanta, GA	68.5%	2,238	1,666	95.4%	63.9%	Improvement Needed
Distribution Center D	Los Angeles, CA	45.8%	2,259	1,816	96.7%	88.2%	Optimized
Distribution Center E	Newark, NJ	35.3%	1,076	2,198	96.9%	63.6%	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