Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 62
Average Utilization: 85.8%
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	47.2%	2,620	2,690	95.1%	89.4%	Optimized
Distribution Center B	Dallas, TX	61.0%	1,952	1,736	95.7%	93.8%	Optimized
Distribution Center C	Atlanta, GA	90.9%	1,996	2,882	98.0%	82.3%	Optimized
Distribution Center D	Los Angeles, CA	67.4%	2,409	3,721	97.4%	87.0%	Optimized
Distribution Center E	Newark, NJ	44.1%	2,685	3,793	99.4%	76.5%	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