Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 33
Average Utilization: 74.3%
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	47.7%	1,537	3,203	98.2%	74.9%	Improvement Needed
Distribution Center B	Dallas, TX	69.1%	1,710	1,901	95.6%	74.4%	Improvement Needed
Distribution Center C	Atlanta, GA	70.7%	2,718	3,879	96.6%	67.4%	Improvement Needed
Distribution Center D	Los Angeles, CA	33.9%	2,623	3,098	98.1%	71.2%	Improvement Needed
Distribution Center E	Newark, NJ	80.2%	1,147	2,226	97.2%	83.3%	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