Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 35
Average Utilization: 80.3%
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	70.8%	1,692	3,412	97.5%	64.6%	Improvement Needed
Distribution Center B	Dallas, TX	49.2%	2,984	2,233	97.9%	76.8%	Improvement Needed
Distribution Center C	Atlanta, GA	48.1%	2,426	3,721	96.1%	80.3%	Optimized
Distribution Center D	Los Angeles, CA	50.1%	1,190	3,285	98.8%	88.6%	Optimized
Distribution Center E	Newark, NJ	101.1%	1,459	2,926	98.7%	91.3%	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