Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 54
Average Utilization: 73.6%
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	51.9%	1,041	3,124	98.2%	63.6%	Improvement Needed
Distribution Center B	Dallas, TX	110.1%	2,740	1,786	98.6%	76.1%	Improvement Needed
Distribution Center C	Atlanta, GA	50.5%	1,447	1,978	96.9%	83.1%	Optimized
Distribution Center D	Los Angeles, CA	63.3%	1,604	2,207	99.2%	83.2%	Optimized
Distribution Center E	Newark, NJ	33.8%	2,412	1,682	96.2%	61.9%	Improvement Needed

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Imple

ment 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