Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 54
Average Utilization: 75.5%
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	56.2%	2,930	1,816	98.6%	64.3%	Improvement Needed
Distribution Center B	Dallas, TX	71.6%	1,300	2,965	97.3%	83.5%	Optimized
Distribution Center C	Atlanta, GA	53.4%	2,587	3,960	97.6%	84.7%	Optimized
Distribution Center D	Los Angeles, CA	75.8%	1,803	1,733	95.8%	69.9%	Improvement Needed
Distribution Center E	Newark, NJ	34.4%	2,577	1,896	97.4%	75.1%	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