Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 53
Average Utilization: 78.7%
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	41.5%	1,981	3,869	98.9%	73.9%	Improvement Needed
Distribution Center B	Dallas, TX	100.8%	1,318	3,945	95.6%	84.7%	Optimized
Distribution Center C	Atlanta, GA	64.5%	2,852	3,882	97.4%	78.9%	Improvement Needed
Distribution Center D	Los Angeles, CA	41.6%	2,335	2,283	96.6%	86.0%	Optimized
Distribution Center E	Newark, NJ	51.8%	2,431	3,750	96.8%	69.7%	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