Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 53
Average Utilization: 78.1%
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	42.8%	2,790	3,803	98.3%	67.6%	Improvement Needed
Distribution Center B	Dallas, TX	47.8%	1,830	3,316	98.1%	92.0%	Optimized
Distribution Center C	Atlanta, GA	63.6%	2,193	2,641	97.7%	75.7%	Improvement Needed
Distribution Center D	Los Angeles, CA	125.4%	2,628	2,223	95.6%	87.5%	Optimized
Distribution Center E	Newark, NJ	91.9%	2,336	3,830	98.9%	68.0%	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