Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 59
Average Utilization: 83.2%
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	64.2%	1,890	3,858	95.8%	87.5%	Optimized
Distribution Center B	Dallas, TX	57.9%	2,430	2,098	96.0%	72.4%	Improvement Needed
Distribution Center C	Atlanta, GA	40.3%	1,410	3,981	96.2%	81.4%	Optimized
Distribution Center D	Los Angeles, CA	68.2%	2,315	2,831	98.5%	86.6%	Optimized
Distribution Center E	Newark, NJ	61.7%	2,697	3,702	96.7%	88.1%	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