Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 60
Average Utilization: 83.7%
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	57.8%	1,977	2,936	98.2%	94.0%	Optimized
Distribution Center B	Dallas, TX	68.9%	1,883	2,397	96.9%	93.4%	Optimized
Distribution Center C	Atlanta, GA	55.0%	1,504	3,504	95.1%	79.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	85.8%	1,252	3,041	97.4%	64.0%	Improvement Needed
Distribution Center E	Newark, NJ	51.5%	2,777	1,660	96.1%	87.8%	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