Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 58
Average Utilization: 79.0%
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	83.8%	1,836	1,802	95.3%	82.3%	Optimized
Distribution Center B	Dallas, TX	108.6%	1,705	3,402	98.0%	68.7%	Improvement Needed
Distribution Center C	Atlanta, GA	100.1%	1,618	3,510	97.0%	86.9%	Optimized
Distribution Center D	Los Angeles, CA	68.0%	2,305	2,703	99.1%	63.7%	Improvement Needed
Distribution Center E	Newark, NJ	36.6%	1,447	2,585	95.6%	93.6%	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