Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 43
Average Utilization: 84.0%
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	113.0%	2,102	3,276	96.2%	92.2%	Optimized
Distribution Center B	Dallas, TX	95.0%	2,769	1,615	96.4%	93.3%	Optimized
Distribution Center C	Atlanta, GA	63.8%	2,110	2,168	99.0%	73.0%	Improvement Needed
Distribution Center D	Los Angeles, CA	40.6%	1,181	2,637	99.4%	79.3%	Improvement Needed
Distribution Center E	Newark, NJ	49.3%	2,629	2,636	96.8%	82.4%	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