Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 57
Average Utilization: 76.2%
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	45.3%	2,888	3,258	98.3%	61.3%	Improvement Needed
Distribution Center B	Dallas, TX	84.2%	2,054	2,203	96.5%	84.5%	Optimized
Distribution Center C	Atlanta, GA	71.2%	1,121	2,131	99.1%	74.8%	Improvement Needed
Distribution Center D	Los Angeles, CA	62.0%	2,152	3,730	98.0%	68.3%	Improvement Needed
Distribution Center E	Newark, NJ	65.7%	2,352	3,343	98.4%	92.4%	Optimized

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