Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 62
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	57.8%	2,249	3,821	97.7%	73.8%	Improvement Needed
Distribution Center B	Dallas, TX	49.3%	2,739	2,740	97.8%	74.0%	Improvement Needed
Distribution Center C	Atlanta, GA	54.3%	2,933	2,483	99.0%	80.0%	Improvement Needed
Distribution Center D	Los Angeles, CA	75.4%	1,959	1,807	95.1%	84.1%	Optimized
Distribution Center E	Newark, NJ	41.7%	1,190	2,038	98.6%	83.1%	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