Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 56
Average Utilization: 85.6%
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	49.6%	2,586	3,664	99.5%	73.7%	Improvement Needed
Distribution Center B	Dallas, TX	105.7%	1,616	1,982	96.8%	84.0%	Optimized
Distribution Center C	Atlanta, GA	99.6%	2,163	1,593	95.8%	94.0%	Optimized
Distribution Center D	Los Angeles, CA	50.3%	1,145	2,555	97.0%	82.2%	Optimized
Distribution Center E	Newark, NJ	59.8%	1,029	3,116	98.9%	93.8%	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