Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 38
Average Utilization: 78.3%
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	55.8%	2,782	3,859	99.2%	69.8%	Improvement Needed
Distribution Center B	Dallas, TX	34.9%	1,138	1,542	97.6%	70.7%	Improvement Needed
Distribution Center C	Atlanta, GA	36.2%	1,997	2,233	96.9%	88.4%	Optimized
Distribution Center D	Los Angeles, CA	41.4%	2,650	2,756	98.6%	80.0%	Improvement Needed
Distribution Center E	Newark, NJ	57.4%	2,486	3,506	98.4%	82.8%	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