Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 58
Average Utilization: 75.5%
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	74.6%	2,896	3,830	96.4%	92.9%	Optimized
Distribution Center B	Dallas, TX	74.1%	2,233	3,929	98.4%	63.0%	Improvement Needed
Distribution Center C	Atlanta, GA	45.8%	1,906	3,316	96.7%	93.2%	Optimized
Distribution Center D	Los Angeles, CA	38.5%	1,167	1,804	97.1%	67.5%	Improvement Needed
Distribution Center E	Newark, NJ	38.8%	1,773	3,958	96.0%	60.8%	Improvement Needed

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