Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 56
Average Utilization: 79.5%
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	77.1%	2,137	1,590	98.9%	89.8%	Optimized
Distribution Center B	Dallas, TX	78.9%	2,186	3,481	98.9%	65.9%	Improvement Needed
Distribution Center C	Atlanta, GA	42.3%	1,105	3,034	95.8%	75.6%	Improvement Needed
Distribution Center D	Los Angeles, CA	89.5%	2,734	3,782	98.7%	88.1%	Optimized
Distribution Center E	Newark, NJ	86.4%	2,642	3,559	98.4%	78.1%	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