Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 51
Average Utilization: 81.9%
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	95.8%	2,366	3,066	97.6%	78.4%	Improvement Needed
Distribution Center B	Dallas, TX	56.3%	2,138	3,595	98.0%	93.4%	Optimized
Distribution Center C	Atlanta, GA	100.7%	2,995	3,174	95.5%	76.2%	Improvement Needed
Distribution Center D	Los Angeles, CA	118.1%	2,376	2,338	99.1%	75.3%	Improvement Needed
Distribution Center E	Newark, NJ	108.0%	2,494	3,262	97.4%	86.4%	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