Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 45
Average Utilization: 74.6%
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	59.9%	1,651	3,372	98.6%	90.8%	Optimized
Distribution Center B	Dallas, TX	51.6%	2,257	3,843	96.2%	82.3%	Optimized
Distribution Center C	Atlanta, GA	93.4%	1,507	3,913	98.8%	74.7%	Improvement Needed
Distribution Center D	Los Angeles, CA	86.5%	1,953	2,184	98.9%	61.6%	Improvement Needed
Distribution Center E	Newark, NJ	98.5%	2,150	3,208	97.5%	63.7%	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