Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 41
Average Utilization: 76.2%
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	61.8%	2,936	2,567	97.7%	84.9%	Optimized
Distribution Center B	Dallas, TX	66.9%	2,948	2,397	96.1%	64.1%	Improvement Needed
Distribution Center C	Atlanta, GA	52.1%	1,916	2,657	98.5%	74.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	59.4%	2,121	2,013	95.4%	68.9%	Improvement Needed
Distribution Center E	Newark, NJ	59.8%	2,879	3,287	96.2%	88.5%	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