Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 34
Average Utilization: 78.8%
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	59.6%	2,358	3,888	97.6%	90.6%	Optimized
Distribution Center B	Dallas, TX	31.3%	1,404	1,661	95.6%	94.6%	Optimized
Distribution Center C	Atlanta, GA	45.3%	2,231	3,430	98.4%	65.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	63.2%	2,211	3,379	95.9%	73.2%	Improvement Needed
Distribution Center E	Newark, NJ	70.7%	1,150	3,209	95.6%	70.6%	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