Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 47
Average Utilization: 78.2%
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	34.2%	2,465	3,868	95.7%	70.3%	Improvement Needed
Distribution Center B	Dallas, TX	43.8%	1,518	3,487	95.8%	73.7%	Improvement Needed
Distribution Center C	Atlanta, GA	60.7%	2,807	1,664	97.6%	81.6%	Optimized
Distribution Center D	Los Angeles, CA	52.6%	1,018	2,041	97.1%	74.7%	Improvement Needed
Distribution Center E	Newark, NJ	37.2%	2,595	3,353	97.6%	90.8%	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