Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 50
Average Utilization: 78.3%
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	103.0%	1,911	1,557	98.8%	86.5%	Optimized
Distribution Center B	Dallas, TX	94.1%	1,565	2,044	99.0%	75.7%	Improvement Needed
Distribution Center C	Atlanta, GA	42.9%	1,276	1,708	95.4%	91.6%	Optimized
Distribution Center D	Los Angeles, CA	69.7%	2,233	2,915	98.1%	60.1%	Improvement Needed
Distribution Center E	Newark, NJ	43.0%	1,288	3,547	99.4%	77.7%	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