Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 72
Average Utilization: 74.9%
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	95.7%	1,494	3,577	96.4%	63.9%	Improvement Needed
Distribution Center B	Dallas, TX	101.5%	2,482	2,313	96.9%	62.4%	Improvement Needed
Distribution Center C	Atlanta, GA	65.5%	1,163	2,984	95.3%	69.6%	Improvement Needed
Distribution Center D	Los Angeles, CA	103.6%	1,747	1,622	98.7%	85.0%	Optimized
Distribution Center E	Newark, NJ	41.5%	1,953	2,224	97.8%	93.8%	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