Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 57
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	31.6%	2,264	2,659	95.6%	74.2%	Improvement Needed
Distribution Center B	Dallas, TX	52.5%	2,124	2,884	97.7%	60.8%	Improvement Needed
Distribution Center C	Atlanta, GA	51.4%	1,031	2,025	95.2%	86.8%	Optimized
Distribution Center D	Los Angeles, CA	74.6%	2,571	2,251	98.8%	83.3%	Optimized
Distribution Center E	Newark, NJ	109.8%	2,511	3,704	97.7%	75.7%	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