Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 50
Average Utilization: 79.7%
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	33.5%	2,179	2,213	99.2%	83.0%	Optimized
Distribution Center B	Dallas, TX	39.3%	1,649	1,693	99.3%	70.3%	Improvement Needed
Distribution Center C	Atlanta, GA	37.0%	1,981	3,001	96.0%	76.7%	Improvement Needed
Distribution Center D	Los Angeles, CA	61.6%	1,882	3,585	98.2%	91.5%	Optimized
Distribution Center E	Newark, NJ	43.2%	2,461	3,303	95.1%	77.3%	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