Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 45
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	119.3%	1,730	2,625	99.2%	80.7%	Optimized
Distribution Center B	Dallas, TX	46.4%	2,661	2,933	98.7%	92.4%	Optimized
Distribution Center C	Atlanta, GA	86.9%	1,949	2,398	96.2%	73.2%	Improvement Needed
Distribution Center D	Los Angeles, CA	50.7%	1,272	2,403	95.6%	74.3%	Improvement Needed
Distribution Center E	Newark, NJ	64.1%	2,843	2,354	98.3%	77.9%	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