Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 37
Average Utilization: 88.8%
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	108.2%	1,647	1,823	97.0%	90.3%	Optimized
Distribution Center B	Dallas, TX	89.1%	1,489	2,600	99.2%	91.3%	Optimized
Distribution Center C	Atlanta, GA	51.5%	2,659	3,499	96.9%	92.2%	Optimized
Distribution Center D	Los Angeles, CA	67.6%	1,488	3,775	96.0%	81.3%	Optimized
Distribution Center E	Newark, NJ	71.2%	1,547	2,529	95.6%	88.8%	Optimized

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Implement 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