Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 52
Average Utilization: 83.4%
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	62.9%	2,266	3,373	99.0%	88.5%	Optimized
Distribution Center B	Dallas, TX	61.9%	1,354	2,285	97.4%	74.9%	Improvement Needed
Distribution Center C	Atlanta, GA	84.3%	2,212	2,450	97.6%	88.9%	Optimized
Distribution Center D	Los Angeles, CA	59.6%	1,892	3,366	95.6%	70.5%	Improvement Needed
Distribution Center E	Newark, NJ	46.6%	1,422	3,382	95.1%	94.0%	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