Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 53
Average Utilization: 83.0%
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	81.5%	1,447	3,709	95.7%	86.5%	Optimized
Distribution Center B	Dallas, TX	79.4%	2,291	3,447	95.9%	80.3%	Optimized
Distribution Center C	Atlanta, GA	74.4%	1,052	3,541	98.2%	74.2%	Improvement Needed
Distribution Center D	Los Angeles, CA	97.9%	2,719	3,595	95.2%	91.3%	Optimized
Distribution Center E	Newark, NJ	33.4%	1,053	2,426	98.6%	82.4%	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