Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 44
Average Utilization: 88.2%
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	48.4%	2,660	1,632	99.3%	94.6%	Optimized
Distribution Center B	Dallas, TX	67.0%	1,786	3,016	98.9%	83.1%	Optimized
Distribution Center C	Atlanta, GA	84.7%	1,558	1,600	98.9%	80.6%	Optimized
Distribution Center D	Los Angeles, CA	68.4%	2,140	3,200	95.8%	88.0%	Optimized
Distribution Center E	Newark, NJ	60.7%	2,371	3,427	99.0%	94.8%	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