Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 63
Average Utilization: 84.8%
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	57.6%	2,182	2,373	98.8%	84.7%	Optimized
Distribution Center B	Dallas, TX	46.4%	1,927	3,466	96.2%	84.9%	Optimized
Distribution Center C	Atlanta, GA	73.0%	1,328	1,730	96.2%	83.1%	Optimized
Distribution Center D	Los Angeles, CA	137.8%	1,788	2,019	98.0%	93.8%	Optimized
Distribution Center E	Newark, NJ	41.4%	2,250	3,817	95.9%	77.7%	Improvement Needed

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