Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 45
Average Utilization: 84.7%
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	105.6%	2,833	3,172	95.6%	93.0%	Optimized
Distribution Center B	Dallas, TX	53.2%	1,030	2,762	95.5%	77.6%	Improvement Needed
Distribution Center C	Atlanta, GA	83.2%	2,049	1,632	95.9%	86.4%	Optimized
Distribution Center D	Los Angeles, CA	39.7%	2,558	2,081	95.6%	89.5%	Optimized
Distribution Center E	Newark, NJ	97.6%	1,675	3,642	98.8%	77.2%	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