Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 41
Average Utilization: 77.5%
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	113.0%	1,026	1,944	97.4%	80.6%	Optimized
Distribution Center B	Dallas, TX	96.9%	1,867	3,867	95.8%	75.2%	Improvement Needed
Distribution Center C	Atlanta, GA	40.6%	1,263	2,897	96.9%	75.6%	Improvement Needed
Distribution Center D	Los Angeles, CA	105.5%	1,128	1,705	97.0%	67.2%	Improvement Needed
Distribution Center E	Newark, NJ	105.9%	1,801	3,867	97.8%	88.7%	Optimized

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Imple

ment 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