Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 62
Average Utilization: 75.6%
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	53.9%	2,830	3,781	99.5%	87.6%	Optimized
Distribution Center B	Dallas, TX	80.4%	1,102	2,267	96.2%	75.0%	Improvement Needed
Distribution Center C	Atlanta, GA	95.4%	1,526	3,421	95.7%	60.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	72.5%	2,653	3,899	96.7%	66.9%	Improvement Needed
Distribution Center E	Newark, NJ	79.3%	1,241	1,762	96.4%	88.5%	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