Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 59
Average Utilization: 74.5%
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	69.4%	1,796	2,450	97.8%	67.2%	Improvement Needed
Distribution Center B	Dallas, TX	137.8%	2,316	3,666	97.4%	80.2%	Optimized
Distribution Center C	Atlanta, GA	95.8%	1,971	3,180	95.9%	64.9%	Improvement Needed
Distribution Center D	Los Angeles, CA	110.1%	1,594	1,818	99.1%	79.2%	Improvement Needed
Distribution Center E	Newark, NJ	80.0%	1,888	3,499	98.9%	80.8%	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