Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 32
Average Utilization: 78.8%
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	81.2%	1,523	2,560	98.7%	78.7%	Improvement Needed
Distribution Center B	Dallas, TX	59.6%	1,736	2,296	95.1%	77.3%	Improvement Needed
Distribution Center C	Atlanta, GA	104.8%	1,998	3,470	98.2%	74.9%	Improvement Needed
Distribution Center D	Los Angeles, CA	37.6%	2,916	3,960	98.7%	80.6%	Optimized
Distribution Center E	Newark, NJ	41.2%	2,296	2,603	95.3%	82.5%	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