Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 43
Average Utilization: 74.0%
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	69.2%	1,665	2,280	96.2%	67.8%	Improvement Needed
Distribution Center B	Dallas, TX	64.7%	1,886	1,819	98.0%	80.0%	Optimized
Distribution Center C	Atlanta, GA	80.8%	1,156	2,361	98.7%	77.6%	Improvement Needed
Distribution Center D	Los Angeles, CA	68.0%	1,717	2,722	98.0%	62.8%	Improvement Needed
Distribution Center E	Newark, NJ	46.5%	1,075	2,812	95.5%	81.7%	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