Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 55
Average Utilization: 80.6%
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	79.8%	2,769	2,293	96.5%	69.6%	Improvement Needed
Distribution Center B	Dallas, TX	68.5%	1,770	3,973	96.7%	74.8%	Improvement Needed
Distribution Center C	Atlanta, GA	70.4%	2,774	3,003	95.6%	74.8%	Improvement Needed
Distribution Center D	Los Angeles, CA	79.7%	1,355	3,961	99.1%	90.9%	Optimized
Distribution Center E	Newark, NJ	45.9%	2,280	3,772	95.6%	92.9%	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