Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 58
Average Utilization: 75.0%
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	56.6%	1,352	3,416	99.3%	89.5%	Optimized
Distribution Center B	Dallas, TX	74.8%	2,328	3,272	96.2%	63.2%	Improvement Needed
Distribution Center C	Atlanta, GA	89.2%	1,999	2,012	97.3%	88.9%	Optimized
Distribution Center D	Los Angeles, CA	60.2%	1,499	3,635	95.6%	68.5%	Improvement Needed
Distribution Center E	Newark, NJ	126.3%	1,902	3,553	99.2%	64.9%	Improvement Needed

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