Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 57
Average Utilization: 78.5%
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	45.5%	1,501	2,384	95.3%	91.8%	Optimized
Distribution Center B	Dallas, TX	58.1%	1,364	2,582	98.3%	88.0%	Optimized
Distribution Center C	Atlanta, GA	47.6%	2,608	2,248	98.3%	60.7%	Improvement Needed
Distribution Center D	Los Angeles, CA	70.0%	2,980	3,392	99.2%	64.0%	Improvement Needed
Distribution Center E	Newark, NJ	74.7%	1,577	3,258	97.3%	88.1%	Optimized

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Implement 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