Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 34
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	82.5%	2,624	3,183	96.5%	93.3%	Optimized
Distribution Center B	Dallas, TX	113.4%	1,271	1,759	96.1%	62.3%	Improvement Needed
Distribution Center C	Atlanta, GA	39.3%	1,420	3,943	97.0%	94.8%	Optimized
Distribution Center D	Los Angeles, CA	70.3%	1,890	3,802	99.3%	90.7%	Optimized
Distribution Center E	Newark, NJ	104.9%	1,603	1,855	97.4%	61.9%	Improvement Needed

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