Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 58
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	71.6%	2,312	3,490	98.4%	77.4%	Improvement Needed
Distribution Center B	Dallas, TX	120.4%	2,593	1,899	98.0%	68.8%	Improvement Needed
Distribution Center C	Atlanta, GA	79.1%	1,089	3,223	96.6%	72.3%	Improvement Needed
Distribution Center D	Los Angeles, CA	65.9%	2,154	3,891	97.8%	84.4%	Optimized
Distribution Center E	Newark, NJ	53.9%	1,718	2,738	98.7%	89.6%	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