Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 57
Average Utilization: 76.8%
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	129.9%	1,068	3,700	98.9%	67.5%	Improvement Needed
Distribution Center B	Dallas, TX	59.6%	2,328	2,698	98.8%	75.5%	Improvement Needed
Distribution Center C	Atlanta, GA	74.9%	1,072	3,265	98.1%	88.5%	Optimized
Distribution Center D	Los Angeles, CA	45.0%	1,724	2,861	97.0%	89.7%	Optimized
Distribution Center E	Newark, NJ	48.1%	1,845	1,839	99.0%	62.6%	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