Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 60
Average Utilization: 79.2%
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	49.9%	1,606	1,539	98.9%	80.8%	Optimized
Distribution Center B	Dallas, TX	64.8%	2,596	1,888	97.7%	73.8%	Improvement Needed
Distribution Center C	Atlanta, GA	97.4%	1,129	3,247	97.2%	74.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	127.6%	2,012	3,024	99.2%	87.1%	Optimized
Distribution Center E	Newark, NJ	48.5%	2,674	3,846	98.0%	79.6%	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