Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 63
Average Utilization: 73.3%
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	89.6%	1,000	1,563	96.1%	63.1%	Improvement Needed
Distribution Center B	Dallas, TX	74.1%	2,634	3,902	97.2%	65.4%	Improvement Needed
Distribution Center C	Atlanta, GA	71.7%	1,748	1,927	96.2%	61.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	50.0%	2,206	2,111	98.8%	83.2%	Optimized
Distribution Center E	Newark, NJ	62.0%	1,199	1,882	99.1%	93.7%	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