Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 54
Average Utilization: 72.9%
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	95.0%	1,527	2,864	97.1%	60.3%	Improvement Needed
Distribution Center B	Dallas, TX	67.5%	1,432	2,702	97.1%	88.4%	Optimized
Distribution Center C	Atlanta, GA	74.2%	1,287	3,220	97.4%	74.0%	Improvement Needed
Distribution Center D	Los Angeles, CA	102.9%	2,382	3,896	96.6%	80.8%	Optimized
Distribution Center E	Newark, NJ	52.0%	2,854	1,682	95.6%	60.8%	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