Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 50
Average Utilization: 79.6%
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	65.4%	1,241	1,882	95.0%	60.7%	Improvement Needed
Distribution Center B	Dallas, TX	44.7%	2,870	1,734	97.7%	86.4%	Optimized
Distribution Center C	Atlanta, GA	62.1%	1,216	2,721	99.3%	79.3%	Improvement Needed
Distribution Center D	Los Angeles, CA	64.1%	2,032	3,315	98.3%	93.3%	Optimized
Distribution Center E	Newark, NJ	52.0%	1,994	3,724	97.6%	78.3%	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