Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 63
Average Utilization: 77.2%
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	53.2%	2,940	2,656	97.1%	64.1%	Improvement Needed
Distribution Center B	Dallas, TX	57.5%	2,200	3,271	98.9%	67.7%	Improvement Needed
Distribution Center C	Atlanta, GA	80.2%	2,106	1,676	97.2%	82.6%	Optimized
Distribution Center D	Los Angeles, CA	51.6%	2,600	1,644	96.5%	77.3%	Improvement Needed
Distribution Center E	Newark, NJ	84.3%	1,788	3,485	99.0%	94.2%	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