Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 80
Average Utilization: 77.0%
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	63.6%	1,029	1,528	97.4%	92.4%	Optimized
Distribution Center B	Dallas, TX	52.0%	2,064	2,362	95.4%	60.5%	Improvement Needed
Distribution Center C	Atlanta, GA	64.9%	2,234	2,479	96.2%	71.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	92.6%	1,227	1,629	95.8%	82.1%	Optimized
Distribution Center E	Newark, NJ	47.3%	1,037	1,586	98.8%	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