Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 34
Average Utilization: 77.8%
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	51.5%	1,786	1,532	97.9%	60.7%	Improvement Needed
Distribution Center B	Dallas, TX	70.6%	2,504	1,794	97.8%	87.1%	Optimized
Distribution Center C	Atlanta, GA	97.6%	1,792	3,385	95.7%	77.9%	Improvement Needed
Distribution Center D	Los Angeles, CA	135.5%	1,947	3,669	97.3%	72.0%	Improvement Needed
Distribution Center E	Newark, NJ	55.2%	2,504	1,646	98.6%	91.4%	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