Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 62
Average Utilization: 83.9%
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	45.3%	2,608	2,698	97.0%	82.9%	Optimized
Distribution Center B	Dallas, TX	103.7%	2,934	1,663	99.3%	89.1%	Optimized
Distribution Center C	Atlanta, GA	124.9%	1,041	2,945	96.9%	90.6%	Optimized
Distribution Center D	Los Angeles, CA	87.9%	1,554	2,550	98.1%	83.7%	Optimized
Distribution Center E	Newark, NJ	76.8%	2,755	1,539	98.3%	73.1%	Improvement Needed

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Implement 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