Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 46
Average Utilization: 72.4%
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	45.4%	1,980	3,787	96.1%	84.0%	Optimized
Distribution Center B	Dallas, TX	79.8%	1,842	3,401	96.8%	60.6%	Improvement Needed
Distribution Center C	Atlanta, GA	56.2%	2,267	2,870	96.0%	67.7%	Improvement Needed
Distribution Center D	Los Angeles, CA	73.0%	2,730	1,828	96.3%	88.1%	Optimized
Distribution Center E	Newark, NJ	72.0%	2,716	2,085	97.2%	61.6%	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