Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 56
Average Utilization: 83.4%
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	97.4%	1,661	3,461	99.0%	64.1%	Improvement Needed
Distribution Center B	Dallas, TX	50.5%	2,402	3,495	99.4%	85.1%	Optimized
Distribution Center C	Atlanta, GA	36.6%	1,448	3,110	96.1%	91.6%	Optimized
Distribution Center D	Los Angeles, CA	51.1%	2,383	3,249	98.1%	84.6%	Optimized
Distribution Center E	Newark, NJ	74.0%	1,951	2,502	96.6%	91.6%	Optimized

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