Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 27
Average Utilization: 74.2%
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	101.8%	1,055	2,445	96.6%	63.0%	Improvement Needed
Distribution Center B	Dallas, TX	99.7%	1,951	2,281	96.7%	65.6%	Improvement Needed
Distribution Center C	Atlanta, GA	101.7%	1,382	3,972	97.3%	90.3%	Optimized
Distribution Center D	Los Angeles, CA	69.4%	2,762	3,698	95.5%	71.6%	Improvement Needed
Distribution Center E	Newark, NJ	82.1%	2,772	2,348	99.5%	80.5%	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