Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 42
Average Utilization: 76.2%
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	57.4%	1,629	3,574	98.6%	66.9%	Improvement Needed
Distribution Center B	Dallas, TX	71.6%	1,576	3,109	98.2%	80.1%	Optimized
Distribution Center C	Atlanta, GA	75.1%	2,691	2,902	95.6%	77.7%	Improvement Needed
Distribution Center D	Los Angeles, CA	43.5%	1,458	3,149	96.6%	93.4%	Optimized
Distribution Center E	Newark, NJ	49.5%	1,061	2,874	97.3%	62.6%	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