Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 42
Average Utilization: 73.7%
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	82.2%	2,129	2,734	96.8%	62.1%	Improvement Needed
Distribution Center B	Dallas, TX	75.5%	1,138	3,665	97.6%	62.9%	Improvement Needed
Distribution Center C	Atlanta, GA	79.2%	1,960	3,971	97.2%	89.9%	Optimized
Distribution Center D	Los Angeles, CA	77.9%	1,203	2,162	95.8%	61.1%	Improvement Needed
Distribution Center E	Newark, NJ	65.8%	2,617	3,340	96.1%	92.2%	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