Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 58
Average Utilization: 75.0%
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	53.3%	1,508	1,831	96.2%	63.9%	Improvement Needed
Distribution Center B	Dallas, TX	81.6%	1,729	3,346	97.5%	80.9%	Optimized
Distribution Center C	Atlanta, GA	86.4%	2,212	1,685	96.1%	72.3%	Improvement Needed
Distribution Center D	Los Angeles, CA	55.5%	1,823	3,025	95.3%	77.1%	Improvement Needed
Distribution Center E	Newark, NJ	70.1%	2,768	2,211	98.7%	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