Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 53
Average Utilization: 84.3%
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	70.1%	1,002	1,708	97.0%	87.9%	Optimized
Distribution Center B	Dallas, TX	87.0%	1,306	3,319	98.2%	79.2%	Improvement Needed
Distribution Center C	Atlanta, GA	42.8%	1,741	3,813	97.5%	76.2%	Improvement Needed
Distribution Center D	Los Angeles, CA	35.7%	2,882	2,824	95.3%	87.7%	Optimized
Distribution Center E	Newark, NJ	62.0%	2,360	3,355	98.8%	90.7%	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