Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 42
Average Utilization: 82.5%
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	42.5%	2,061	1,545	95.2%	74.9%	Improvement Needed
Distribution Center B	Dallas, TX	38.5%	1,298	3,358	98.3%	79.1%	Improvement Needed
Distribution Center C	Atlanta, GA	72.2%	1,257	1,603	97.4%	83.6%	Optimized
Distribution Center D	Los Angeles, CA	84.9%	2,696	2,048	96.2%	88.4%	Optimized
Distribution Center E	Newark, NJ	70.5%	1,691	3,412	95.8%	86.5%	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