Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 38
Average Utilization: 81.3%
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	40.1%	1,705	3,264	96.5%	86.0%	Optimized
Distribution Center B	Dallas, TX	43.7%	2,434	3,692	98.6%	70.2%	Improvement Needed
Distribution Center C	Atlanta, GA	46.6%	2,180	1,573	98.2%	68.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	92.9%	1,109	3,738	95.9%	94.7%	Optimized
Distribution Center E	Newark, NJ	43.0%	1,278	2,999	96.7%	86.8%	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