Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 55
Average Utilization: 79.1%
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	67.4%	2,741	2,833	96.8%	83.6%	Optimized
Distribution Center B	Dallas, TX	129.7%	2,740	1,967	98.3%	64.8%	Improvement Needed
Distribution Center C	Atlanta, GA	47.3%	1,264	3,619	99.1%	70.4%	Improvement Needed
Distribution Center D	Los Angeles, CA	69.7%	1,634	2,192	99.3%	90.2%	Optimized
Distribution Center E	Newark, NJ	55.2%	2,676	2,671	97.0%	86.6%	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