Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 52
Average Utilization: 78.9%
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	73.3%	2,477	2,448	95.8%	63.3%	Improvement Needed
Distribution Center B	Dallas, TX	56.3%	2,783	3,205	98.3%	75.2%	Improvement Needed
Distribution Center C	Atlanta, GA	120.5%	2,818	2,475	99.3%	83.5%	Optimized
Distribution Center D	Los Angeles, CA	91.7%	2,714	2,979	95.4%	89.9%	Optimized
Distribution Center E	Newark, NJ	84.7%	1,058	2,333	96.5%	82.4%	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