Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 37
Average Utilization: 86.0%
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	41.2%	1,176	2,061	98.6%	87.7%	Optimized
Distribution Center B	Dallas, TX	64.0%	1,429	1,643	95.7%	81.7%	Optimized
Distribution Center C	Atlanta, GA	67.8%	1,155	2,600	95.7%	90.7%	Optimized
Distribution Center D	Los Angeles, CA	54.3%	2,264	2,502	95.2%	80.5%	Optimized
Distribution Center E	Newark, NJ	68.9%	2,206	3,228	98.1%	89.4%	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