Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 60
Average Utilization: 81.0%
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	42.4%	1,186	1,647	98.7%	63.6%	Improvement Needed
Distribution Center B	Dallas, TX	35.1%	2,879	3,694	95.6%	85.5%	Optimized
Distribution Center C	Atlanta, GA	61.6%	2,542	2,730	95.2%	92.9%	Optimized
Distribution Center D	Los Angeles, CA	63.8%	1,719	2,486	96.1%	89.8%	Optimized
Distribution Center E	Newark, NJ	75.4%	2,099	1,558	95.3%	73.3%	Improvement Needed

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