Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 59
Average Utilization: 80.3%
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	60.6%	2,698	3,934	95.2%	94.3%	Optimized
Distribution Center B	Dallas, TX	60.3%	1,367	3,592	96.0%	86.6%	Optimized
Distribution Center C	Atlanta, GA	54.6%	1,389	2,641	99.2%	70.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	33.1%	2,250	3,682	95.9%	61.8%	Improvement Needed
Distribution Center E	Newark, NJ	70.5%	1,260	2,101	96.5%	88.7%	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