Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 70
Average Utilization: 73.7%
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	84.0%	1,713	3,802	96.4%	70.5%	Improvement Needed
Distribution Center B	Dallas, TX	43.3%	2,618	3,835	98.2%	86.9%	Optimized
Distribution Center C	Atlanta, GA	42.1%	1,126	1,682	95.9%	65.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	60.7%	2,537	3,632	97.9%	61.3%	Improvement Needed
Distribution Center E	Newark, NJ	103.6%	2,957	3,145	99.4%	84.8%	Optimized

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Imple

ment 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