Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 24
Average Utilization: 81.4%
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	42.7%	2,659	1,661	99.0%	80.4%	Optimized
Distribution Center B	Dallas, TX	71.0%	1,300	1,656	95.4%	75.9%	Improvement Needed
Distribution Center C	Atlanta, GA	59.5%	1,247	2,610	96.9%	74.7%	Improvement Needed
Distribution Center D	Los Angeles, CA	40.6%	2,749	3,573	97.6%	93.4%	Optimized
Distribution Center E	Newark, NJ	64.7%	2,063	1,862	95.8%	82.7%	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