Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 63
Average Utilization: 81.7%
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	61.7%	1,510	3,075	98.8%	77.3%	Improvement Needed
Distribution Center B	Dallas, TX	60.1%	1,061	2,753	95.7%	81.0%	Optimized
Distribution Center C	Atlanta, GA	37.3%	1,568	2,341	97.4%	80.4%	Optimized
Distribution Center D	Los Angeles, CA	82.6%	2,470	2,084	96.0%	78.2%	Improvement Needed
Distribution Center E	Newark, NJ	45.9%	1,998	3,225	98.1%	91.4%	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