Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 53
Average Utilization: 84.5%
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	55.1%	1,319	2,315	95.2%	83.3%	Optimized
Distribution Center B	Dallas, TX	123.4%	2,490	3,740	97.8%	93.1%	Optimized
Distribution Center C	Atlanta, GA	80.6%	2,171	3,266	96.1%	76.9%	Improvement Needed
Distribution Center D	Los Angeles, CA	82.4%	1,737	1,828	98.6%	82.9%	Optimized
Distribution Center E	Newark, NJ	75.3%	1,838	1,832	98.8%	86.2%	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