Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 45
Average Utilization: 84.9%
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	92.0%	1,676	2,367	95.2%	80.6%	Optimized
Distribution Center B	Dallas, TX	105.6%	1,641	3,125	98.5%	92.4%	Optimized
Distribution Center C	Atlanta, GA	109.8%	1,856	2,572	95.7%	68.9%	Improvement Needed
Distribution Center D	Los Angeles, CA	41.6%	1,541	2,737	96.6%	89.1%	Optimized
Distribution Center E	Newark, NJ	86.0%	2,096	3,404	99.2%	93.6%	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