Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 18
Average Utilization: 74.8%
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	31.2%	1,032	1,741	98.8%	72.4%	Improvement Needed
Distribution Center B	Dallas, TX	116.6%	2,086	3,362	98.8%	82.0%	Optimized
Distribution Center C	Atlanta, GA	54.1%	1,815	3,678	99.2%	72.4%	Improvement Needed
Distribution Center D	Los Angeles, CA	43.7%	1,385	2,974	95.7%	63.9%	Improvement Needed
Distribution Center E	Newark, NJ	93.3%	2,589	3,387	97.6%	83.5%	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