Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 35
Average Utilization: 77.5%
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	50.0%	1,392	2,542	96.2%	77.2%	Improvement Needed
Distribution Center B	Dallas, TX	46.6%	1,781	1,696	96.2%	80.4%	Optimized
Distribution Center C	Atlanta, GA	89.3%	2,997	2,177	96.1%	63.9%	Improvement Needed
Distribution Center D	Los Angeles, CA	64.8%	2,799	1,684	95.4%	92.5%	Optimized
Distribution Center E	Newark, NJ	71.0%	1,673	3,304	95.3%	73.6%	Improvement Needed

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