Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 55
Average Utilization: 78.9%
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	71.4%	1,018	1,551	98.3%	91.2%	Optimized
Distribution Center B	Dallas, TX	79.9%	2,374	3,633	98.7%	64.1%	Improvement Needed
Distribution Center C	Atlanta, GA	90.8%	2,505	1,861	98.3%	87.3%	Optimized
Distribution Center D	Los Angeles, CA	80.6%	2,854	2,171	95.9%	78.9%	Improvement Needed
Distribution Center E	Newark, NJ	67.2%	2,146	2,687	96.7%	73.2%	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