Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 40
Average Utilization: 77.6%
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	32.0%	2,385	3,027	98.2%	94.9%	Optimized
Distribution Center B	Dallas, TX	101.0%	2,714	2,716	96.8%	74.7%	Improvement Needed
Distribution Center C	Atlanta, GA	64.7%	1,653	1,636	98.6%	61.4%	Improvement Needed
Distribution Center D	Los Angeles, CA	69.9%	2,868	1,568	99.3%	64.0%	Improvement Needed
Distribution Center E	Newark, NJ	71.5%	1,771	3,568	98.8%	92.8%	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