Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 64
Average Utilization: 77.8%
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	72.2%	1,767	1,795	95.2%	68.0%	Improvement Needed
Distribution Center B	Dallas, TX	48.6%	1,430	2,120	96.8%	90.2%	Optimized
Distribution Center C	Atlanta, GA	51.0%	1,272	1,540	97.8%	71.2%	Improvement Needed
Distribution Center D	Los Angeles, CA	42.8%	2,450	3,984	96.4%	68.0%	Improvement Needed
Distribution Center E	Newark, NJ	70.5%	1,088	1,737	96.6%	91.7%	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