Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 58
Average Utilization: 76.6%
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	63.7%	2,337	2,727	96.7%	75.7%	Improvement Needed
Distribution Center B	Dallas, TX	72.6%	2,234	3,303	97.8%	60.7%	Improvement Needed
Distribution Center C	Atlanta, GA	63.9%	1,483	1,901	98.7%	77.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	70.9%	1,430	2,545	95.5%	89.1%	Optimized
Distribution Center E	Newark, NJ	94.8%	1,522	1,669	96.3%	80.2%	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