Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 56
Average Utilization: 87.6%
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	74.8%	1,162	1,507	95.9%	88.7%	Optimized
Distribution Center B	Dallas, TX	88.2%	2,132	2,092	99.5%	89.3%	Optimized
Distribution Center C	Atlanta, GA	118.8%	2,165	3,840	96.5%	93.9%	Optimized
Distribution Center D	Los Angeles, CA	78.8%	1,160	2,565	97.9%	74.7%	Improvement Needed
Distribution Center E	Newark, NJ	49.5%	1,663	2,449	99.3%	91.6%	Optimized

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Implement 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