Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 68
Average Utilization: 88.8%
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	104.0%	1,585	3,233	95.3%	88.7%	Optimized
Distribution Center B	Dallas, TX	56.1%	2,249	2,984	98.5%	86.2%	Optimized
Distribution Center C	Atlanta, GA	122.0%	1,645	3,901	98.2%	91.3%	Optimized
Distribution Center D	Los Angeles, CA	53.4%	1,518	3,189	98.7%	94.9%	Optimized
Distribution Center E	Newark, NJ	39.5%	1,149	3,418	95.5%	83.1%	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