Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 74
Average Utilization: 91.9%
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	46.6%	1,343	3,796	98.7%	86.1%	Optimized
Distribution Center B	Dallas, TX	46.7%	2,564	1,979	98.7%	93.8%	Optimized
Distribution Center C	Atlanta, GA	70.9%	2,293	2,003	96.9%	94.9%	Optimized
Distribution Center D	Los Angeles, CA	51.4%	1,310	3,629	95.8%	94.6%	Optimized
Distribution Center E	Newark, NJ	48.6%	2,558	3,617	98.0%	90.3%	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