Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 58
Average Utilization: 88.9%
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	91.0%	2,558	2,520	97.6%	87.0%	Optimized
Distribution Center B	Dallas, TX	42.6%	2,463	1,903	97.8%	86.2%	Optimized
Distribution Center C	Atlanta, GA	60.7%	1,167	1,909	98.8%	93.9%	Optimized
Distribution Center D	Los Angeles, CA	61.8%	1,488	3,900	98.5%	88.1%	Optimized
Distribution Center E	Newark, NJ	38.7%	2,856	3,122	96.9%	89.4%	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