Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 44
Average Utilization: 86.6%
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	77.4%	2,244	3,978	96.8%	94.5%	Optimized
Distribution Center B	Dallas, TX	47.6%	1,278	3,448	97.2%	81.3%	Optimized
Distribution Center C	Atlanta, GA	89.8%	1,993	1,635	95.8%	80.2%	Optimized
Distribution Center D	Los Angeles, CA	40.4%	2,235	3,161	96.7%	84.9%	Optimized
Distribution Center E	Newark, NJ	88.5%	1,357	3,731	97.4%	91.9%	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