Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 40
Average Utilization: 80.6%
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	66.4%	2,684	1,999	98.2%	92.7%	Optimized
Distribution Center B	Dallas, TX	47.7%	1,727	2,770	97.3%	64.9%	Improvement Needed
Distribution Center C	Atlanta, GA	116.2%	2,145	3,060	96.9%	73.7%	Improvement Needed
Distribution Center D	Los Angeles, CA	65.9%	2,746	3,727	98.4%	79.0%	Improvement Needed
Distribution Center E	Newark, NJ	86.8%	1,224	3,697	98.6%	92.8%	Optimized

Optimization Opportunities

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

ment 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