Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 65
Average Utilization: 77.3%
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	60.3%	1,159	2,416	97.8%	93.7%	Optimized
Distribution Center B	Dallas, TX	91.9%	2,514	1,995	95.5%	85.3%	Optimized
Distribution Center C	Atlanta, GA	42.7%	2,694	1,748	95.9%	69.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	46.7%	1,771	2,868	95.4%	64.0%	Improvement Needed
Distribution Center E	Newark, NJ	63.6%	2,890	3,738	98.6%	74.2%	Improvement Needed

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