Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 68
Average Utilization: 81.5%
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	42.5%	1,855	3,145	97.5%	74.2%	Improvement Needed
Distribution Center B	Dallas, TX	99.9%	2,415	2,000	98.0%	89.8%	Optimized
Distribution Center C	Atlanta, GA	67.9%	2,855	2,933	96.7%	76.2%	Improvement Needed
Distribution Center D	Los Angeles, CA	134.4%	1,612	3,543	98.4%	72.9%	Improvement Needed
Distribution Center E	Newark, NJ	64.5%	1,373	1,684	99.0%	94.4%	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