

ISD Launches URBX Cube Robotic ASRS to Solve Critical Warehouse Space and Labor Challenges

Cube Robotic Automated Storage and Retrieval System Delivers 500 Lines Per Hour Per Operator, Reaches 125 Feet High, 100 lbs. Capacity For Case or Tote Handling

WIXOM, MI, UNITED STATES, October 10, 2025 /EINPresswire.com/ -- ISD – Integrated Systems Design announces the launch of its URBX Cube Robotic ASRS, a breakthrough Cube robotic automated storage and retrieval system that fundamentally transforms

how distribution centers, warehouses, and manufacturing operations approach high-density storage and rapid fulfillment in today's demanding ecommerce environment.



URBX - ISD ASRS Systems

“

The robots know where every tote or case sits. AI-driven software constantly optimizes their pathways. Utilizing integrated slotting logic, the system is storing SKUs in easily accessible locations.”

Ed Romaine

The [URBX Cube Robotics ASRS](#) addresses three critical pain points impacting warehouse operators nationwide: insufficient floor space, unsustainable labor costs, and inadequate throughput capacity to meet accelerating ecommerce, omnichannel, and manufacturers' delivery demands. As industrial real estate costs continue climbing and skilled warehouse labor becomes increasingly scarce, the URBX system delivers a proven solution that eliminates expansion requirements while dramatically improving operational efficiency.

“Traditional [ASRS systems](#) require aisles for cranes or

forklifts. This robotic cube system eliminates that waste,” states Bob Jones, Senior Analyst and Consultant at ISD. “You’re storing inventory in what used to be empty air. That matters when you’re paying \$15 per square foot for industrial space.”

New URBX Cube Robotic ASRS Solves the Floor Space Crunch
Distribution centers face an intensifying constraint—they're running out of room. Adding square footage increases operational inefficiencies and wastes valuable time. Industrial real estate rates continue their upward trajectory, while building new facilities requires 18–24 months and capital expenditures that strain budgets. Meanwhile, SKU proliferation, ecommerce returns, and elevated safety stock levels force warehouses to accommodate 40% more inventory without expanding their footprint.

"We've seen operations store inventory in trailers parked in their lots," explains Ed Romaine, VP Marketing and Business Development at ISD. "That's not a storage strategy. That's desperation. You can't efficiently pick from a trailer 200 yards from your packing stations. This indicates a much larger problem—lack of floor space."

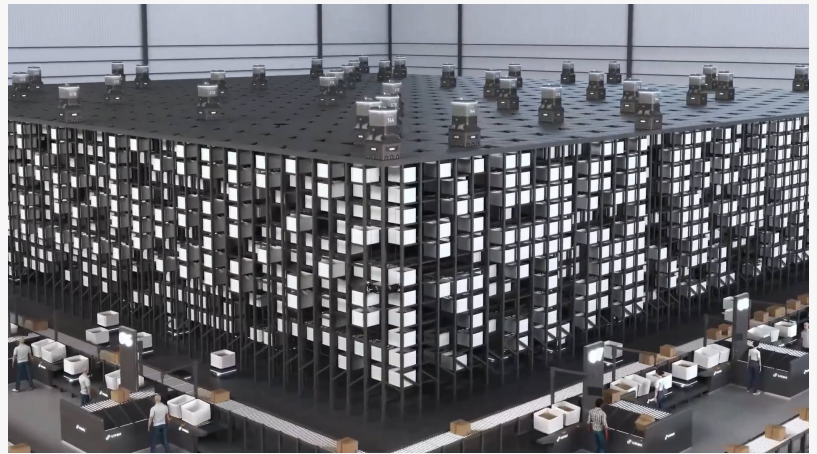
The ISD URBX Cube Robotic ASRS operates on fundamentally different principles than conventional crane-and-aisle automated storage systems. Instead of using cranes moving through fixed aisles, autonomous robots traverse a three-dimensional grid structure, climbing vertically and moving horizontally without dedicated travel lanes. Each robot accesses any storage location within the grid, storing totes in a dense Cube arrangement that eliminates the wasted aisle space that traditional ASRS requires.

The storage density improvements prove transformative. A Cube robotic system typically achieves three to four times the storage capacity of conventional racking in the same footprint. The system reaches heights up to 125 feet, utilizing vertical space most facilities leave empty. Each robot handles up to 100 pounds and completes up to 500 presentations per hour—delivering 1,000 transactions hourly when counting both storage and retrieval operations.

"Think of it as three-dimensional chess," notes Romaine. "The robots know where every tote or case sits. AI-driven software constantly optimizes their pathways. Utilizing integrated slotting



URBX Cube Robotic ASRS - ISD



URBX Case and Tote Cube ASRS - ISD

logic, the system is storing popular SKUs in easily accessible locations and moving slow-movers to deeper positions—automatically, continuously, without human intervention.”

Technical Performance That Delivers Results

The URBX Cube Robotic ASRS system’s capabilities address real operational requirements with proven specifications. The system handles cases and totes with a maximum height reaching 125 feet and a load capacity of up to 100 pounds per tote. Each robot delivers 500 tote or case presentations per hour with 1,000 storage and retrieval cycles hourly. The system accommodates container dimensions from 6 inches to 24 inches for maximum operational flexibility.

Integration capabilities include compatibility with standard conveyor systems and seamless interfaces with warehouse management software (WMS), warehouse control systems (WCS), and warehouse execution systems (WES). The technology integrates with existing pick-to-light and goods-to-person technologies, as well as palletizers and outbound shipping systems.

Machine learning algorithms optimize robot tasking and routing, while AI-driven grid technology maximizes throughput. Vision systems detect dimensions, anomalies, and barcodes. The redundant robot fleet ensures continuous operation, and remote monitoring enables predictive maintenance. The modular design allows phased implementation while scalable configuration grows with business requirements.

Proven Applications Across Industries for the URBX Cube Robotic ASRS

The URBX Cube Robotic ASRS serves multiple industries facing storage and throughput challenges. Ecommerce operations benefit from rapid order fulfillment speeds and high inventory visibility with efficient split-case picking for direct-to-consumer fulfillment. Retail distribution centers leverage the technology for omnichannel order processing, fulfilling both store replenishment and individual customer shipments without reconfiguration.

Third-party logistics providers utilize the system’s flexibility to serve multiple clients from shared facilities, reconfiguring storage allocations quickly as requirements change. Pharmaceutical distributors value the system’s accuracy and inventory control, and real-time location tracking supports first-expired, first-out picking strategies. Electronics manufacturers benefit from high-density component storage accommodating thousands of low-volume SKUs in minimal floor space.

“One automotive parts distributor we worked with needed to double their SKU count without expanding their building,” Romaine states. “Traditional racking couldn’t deliver that. The Cube robotic system gave them 3.5 times their previous storage capacity in the same footprint. They canceled a planned facility expansion that would have cost \$12 million.”

URBX Cube Robotic ASRS Measurable Return on Investment

Cube robotic ASRS investments deliver ROI through multiple operational improvements. Labor productivity typically improves three to four times compared to manual operations as the system brings inventory to stationary picking positions. Increased storage density eliminates expansion requirements, helping organizations avoid capital expenditures for building additions or new facilities.

Automated storage and retrieval eliminate location errors with pick accuracy typically exceeding 99.9 percent, reducing returns, customer complaints, and reshipment costs. The system scales throughput by adding robots to the grid structure, managing peak volumes without temporary labor surges or overtime expenses. Real-time location tracking provides accurate inventory data, reducing safety stock requirements and improving inventory turns.

“One ecommerce operation calculated their payback at 22 months,” notes Romaine. “They eliminated 18 picking positions, gained 12,000 additional pallet positions, and improved order accuracy from 98.1% to 99.7%. Those aren’t hypothetical benefits. They’re documented results measured six months post-implementation.”

The ISD Advantage

ISD brings 60-plus years of warehouse automation experience to Cube robotic ASRS implementations. The company’s OEM-agnostic approach ensures clients receive optimal solutions rather than vendor-locked specifications. The proprietary [OptimalOps-Process](#) framework provides systematic methodology for assessment, design, implementation, and validation, minimizing risk and accelerating time to full productivity.

Ed Romaine

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