

casemagiQ[®]
Patent Pending

The World's First
Universal Case Forming EOAT

Case Forming.
Plug & Play.



reddot winner 2024



Any Robot | Any Case

IMPACT
ROBOTICS





casemagiQ

casemagiQ is a revolutionary End of Arm Tooling solution, designed specifically for automating the case forming process, commonly known as carton erection or case forming.

This innovative product transforms flat cartons into fully formed boxes, addressing a critical step in packaging and distribution.

Unlike traditional end of arm tooling, which requires custom design and assembly by specialized integrators, casemagiQ offers an out-of-the-box, plug-and-play solution, avoiding need for customization.

CM100

CM100 supports cartons from 225 x 175 x 175 mm up to 500 x 400 x 400 mm. Its extendable arm accommodates varying carton sizes while maintaining a compact footprint.

Weighing 1350 g, CM100 is suited for packaging environments requiring flexibility across different case dimensions.

CM50

CM50 supports cartons from 200 x 125 x 125 mm up to 300 x 300 x 300 mm.

Weighing 915 g, CM50 extends casemagiQ into smaller carton formats while maintaining the same integrated pneumatic design and communication logic.

Value Proposition

casemagiQ democratizes robotic case forming by offering a streamlined, efficient solution that eliminates the complexity and extended project timelines associated with custom-designed tooling.

Traditionally, designing and assembling case forming tooling involved coordinating with mechanical and electrical designers, sourcing numerous components, and managing the intangible costs of procurement. This process could take anywhere from 4 to 8 weeks to complete.

casemagiQ's plug-and-play design significantly reduces setup time, making it an attractive option for businesses looking to enhance their packaging operations without the traditional hassles.

Advantages

casemagiQ's design offers several advantages over traditional end of arm tooling.

Its lightweight, compact form factor and internal air distribution system reduce the complexity and clutter of multiple tubes and components. This not only streamlines the installation process but also facilitates easier maintenance and adaptability to different carton sizes.

Furthermore, the simplified communication with robot controllers through the onboard controller enhances the product's usability, making it an ideal choice for companies seeking to automate their packaging processes with minimal technical overhead.

Applications

The versatility and ease of use of casemagiQ make it suitable for a wide range of applications in industries that require efficient, reliable case erection.

From manufacturing and distribution centers to retail and e-commerce fulfillment operations, casemagiQ can significantly enhance productivity and operational efficiency.

Its ability to handle various carton sizes and shapes with minimal setup changes allows businesses to quickly adapt to changing packaging needs, thereby improving throughput and reducing downtime in their packaging lines.

magic with cases.
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Plug & Play Approach

Plug & Play design ensures immediate integration and operation with existing robotic systems, dramatically reducing setup time and allowing for instant productivity gains.

Optimized Mechanical Form Factor

The compact size, light weight and sleek design of casemagiQ allows it to be seamlessly installed on the robotic arm. The extendable arm & flap folding speed controller allows for quick changeover for different sizes.

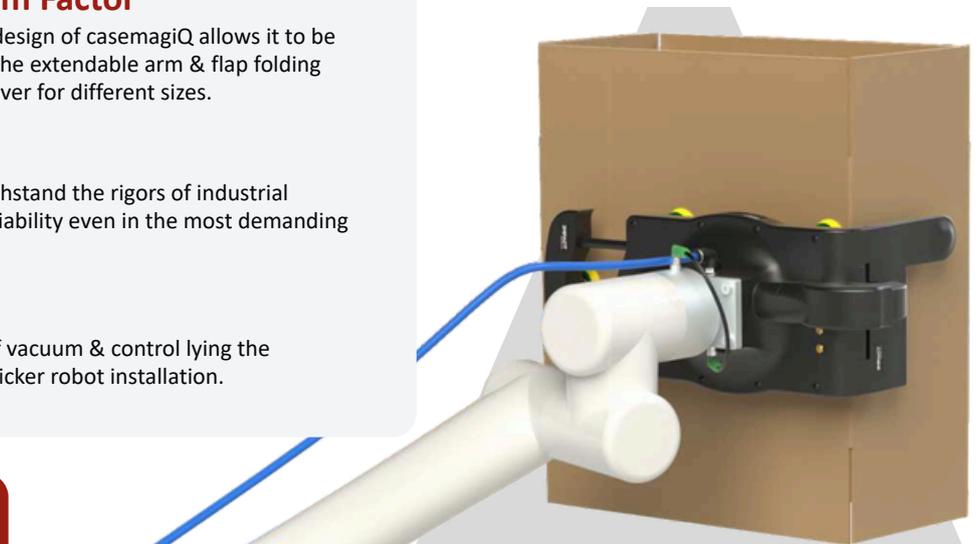
Rugged Design

casemagiQ's sturdy design allows it to withstand the rigors of industrial environments, ensuring durability and reliability even in the most demanding applications

Smart Robot Installation

The single tube air inlet and availability of vacuum & control lying the pneumatic cylinder enables smarter & quicker robot installation.

Install in just 10 minutes



Benefits - Integrators

- Plug & Play design enables reduced design complexity.
- Faster project completion saving 4-8 weeks.
- No dependency on skilled design & engineering resources.
- Simplified procurement eliminates coordinating from multiple vendors.
- Reduce installation time to just a few minutes.
- Decrease turnaround of projects - more projects in the same time.
- Aesthetic implementation of the robotic cell.

Benefits - End Users

- Aesthetic robotic cell. Single EOAT adaptable for multiple carton sizes.
- Zero maintenance.
- Minimize spares requirement.
- Quicker deployment of projects.
- Quick redeployment for other applications.

Out-of-the-Box

Avoid Complex Design & Fabrication

Laser Aligner

Allows quick alignment for new cartons

Extendable

Suitable for varying carton sizes

Quick Install

Accelerate Robot Deployment

Light

Maximize Robot Payload

IP54

Use in Industrial Environment

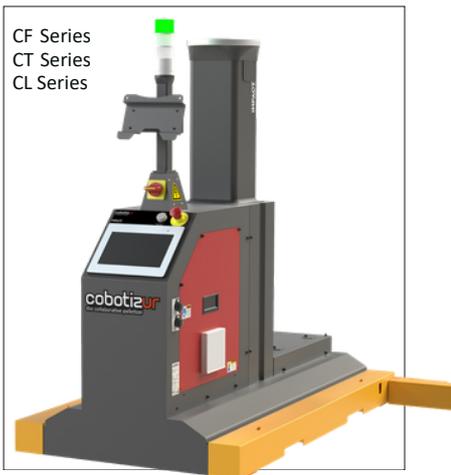


Specifications

	CM100	CM50
Operating medium	Compressed air	
Weight	1350 g	915 g
Dimensions (L x W x H)	464 x 176 x 94 mm	384.5 x 136 x 94 mm
Max. case dimension	500 x 400 x 400 mm	300 x 300 x 300 mm
Min. case dimension	240 x 140x 165 mm	200 x 125x 125 mm
Max. load	3kg	3 kg
Airflow rate	85 slpm/ 3 scfm	
Vacuum flow rate	15 slpm/ 0.53 scfm	
Air consumption	100 slpm/ 3.53 scfm	
Max. vacuum pressure	-870 mbar/ -12.62 psi	
Max. operating pressure	6 bar / 87 psi	
I/O Connector	M8 8pin female connector	
Air Inlet	Ø8 mm tube quick connector	
Operating voltage	24V DC	
Ambient temperature range	+5°C to 50°C	+5°C to 50°C
Noise level	<50 dB	<50 dB
Ingress Protection	IP54	IP54

Product Lineup

cobotizur
the collaborative palletizer
The Cobot Palletizing Platform



vaQgrip® Click
Patent Pending
Modular Vacuum Gripper System



pneumagiQ®
Patented
Universal Pneumatic EOAT Interface



casemagiQ®
Patent Pending
Universal Case Forming EOAT



pneuvaQ®
Patent Pending
Integrated Pneumatic + Vacuum Interface



Qik-kit®
Cable Management System

Qik-mount®
Cobot Peripherals

Robot Compatibility



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innovative product



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