

# ARC | AUTOMATIC RIVETING CELL

THE **GAME-CHANGING**  
**SOLUTION** TO **AUTOMATE**  
SMALL PARTS APPLICATION  
ON COMPOSITE FRAMES  
AND COMPONENTS



In partnership with [cosberg.com](https://cosberg.com)



**belotti**

# ARC | AUTOMATIC RIVETING CELL

Belotti ARC is the groundbreaking robotic cell featuring a patent-pending riveting head designed for the rapid, automated application of the entire range of Time-Sert® inserts and rivets of different diameters on composite frames and components.

A first-on-the-market technology developed to manage two different processes - pulling & screwing - with a single device.

## MAIN APPLICATION INDUSTRIES



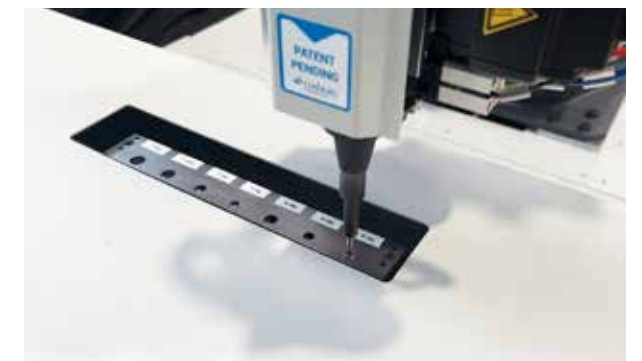
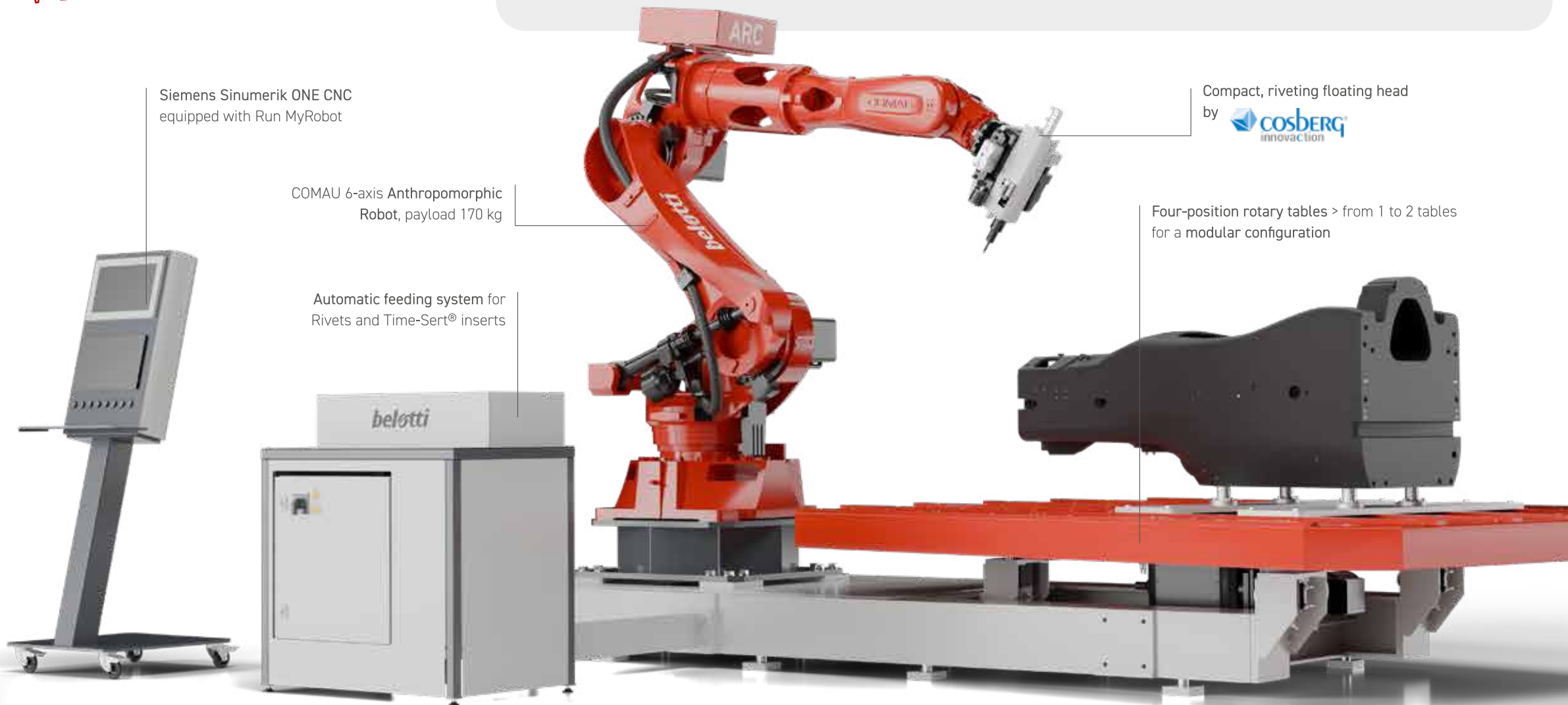
AEROSPACE



AUTOMOTIVE

## KEY ADVANTAGES

- > **One Head, Multiple Inserts**  
Rivets and Time-Sert® inserts of different diameters are managed automatically by a single device without head change.
- > **Maximum Flexibility & Reachability**  
The anthropomorphic robot emulates the flexibility of the human wrist, enabling access to even the most challenging areas.
- > **Easy & Intuitive Programming**  
ISO programming language for seamless operation.
- > **Quality without Compromise**  
The advanced, fully electronic system enables precise control of all parameters.
- > **Precision under Control**  
Real-time process tracking and feedback for unmatched accuracy.
- > **Redefining Productivity**  
Faster, more flexible, and cost-effective fastening technology.
- > **Engineered for Excellence**  
Designed for high-performance industries like Automotive and Aerospace.



## TECHNICAL FEATURES | SINGLE ROTARY TABLE MODEL

Riveting head	Patent-pending by Cosberg
Robot	COMAU N170 3.0
Table dimensions	3 m by 2 m   4 positions (0°, 90°, 180°, 270°)
Tool	Automatic insertion tool (30 kN – 30 Nm)
NC	Siemens Sinumerik ONE
Rivet nut type	M5 – M6 – M8
Time-Sert® type	M6 – M8 – M10 – M12
Accuracy	+/- 0.1 mm
Storage capacity	200 inserts per type – 15 types of different inserts
Optional features	<ul style="list-style-type: none"> <li>• Double rotary table</li> <li>• Automatic tool change</li> <li>• 3D measuring probe with radio transmission</li> </ul>



**WATCH  
THE VIDEO**

