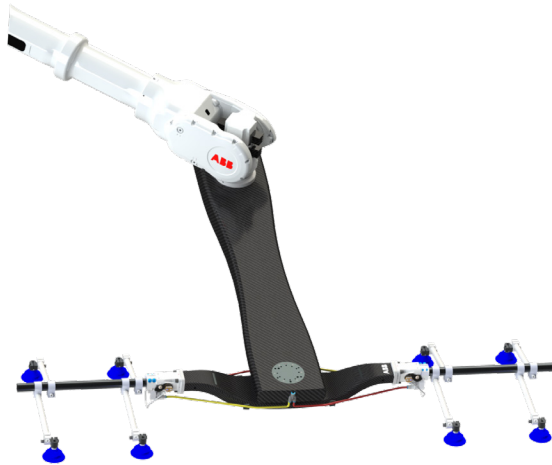


CF Press Automation Tooling

Carbon Fiber lightweight tooling for improved process performance



ABB's Tooling is focused on achieving the optimum performance of the Automation process. Through its modular design, it is designed to adapt to each specific part.

Lighter, more rigid Tooling

Carbon Fiber (CF) tooling improves process performance due to a dramatic reduction of deflection, vibrations and weight.

Additionally, the ABB design features a reduced height, which has a positive impact on cycle times. Aluminum components for adaption to different parts are connected to CF structural components by quick change systems. The wide range of modular components has been designed to reduce project risks, time and set up costs.

CF Boom

The CF Boom is the extension of the robot arm: it remains attached to the robot wrist during production change over. It is used with a 6-axis robot, it has a length of 1450 mm and it can handle up to 100 kg.

CF Gondola Arm

The CF Gondola Arms are components used in both 6 and 7-axis robots, attached to the CF Boom or to one of ABB's 7th axis through an automatic tool change. It is available in two different lengths and equipped with manual tool changers to allow the easy attachment and detachment of specific aluminum tooling.

Efficient Automatic Tool Change

ABB's Carbon Fiber Tooling is designed as a complete solution to enable easy Automatic Tool Change.

Important advantages

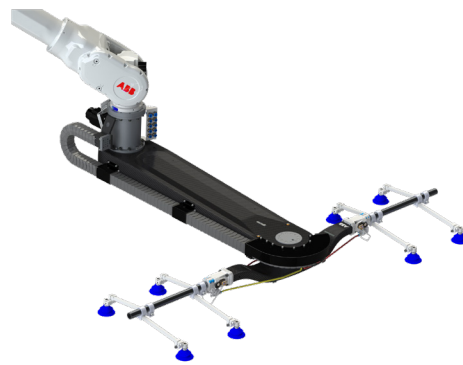
- Optimum stiffness/weight ratio
- Slim profile: reduced height to minimize press occupation
- Unified component for 6-axis and 7-axis robots
- Enabled for automatic tool change (ATC)
- Up to 8 vacuum channels
- Ergonomic: smaller tooling to be manipulated
- Less components and storage room



01



02



03

01 CF Tooling Assembly:

1. CF Boom /
2. CF Gondola /
3. Aluminum Tooling

02 CF Tooling with 7th Linear Axis (Linax CF)

03 CF tooling with 7th Rotational Axis (Rotax CF)

Specification and technical information

Key Figures	CF Boom	CF Gondola 1.0/1.4
Handling capacity (kg)	100	90
Reach (m)	3.10 + 1.65	
Axis	6	6 or 7
Length (mm)	1450	1000/1400
Weight (kg)	20	10/12