ABB Tooling is focused on achieving the optimum performance of the automation process. ABB modular tooling concept combines Carbon Fiber for structural components with Aluminum components for adaption to each specific part.

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.

**Carbon Fiber Boom**
The CF Boom is an extension of the robot arm: it remains attached to the robot wrist during production changeover. It’s only used in 6-axis robot applications. With a length of 1450 mm, it is dimensioned to handle up to 100 kg.

**Carbon Fiber Gondola arm**
The CF Gondola arms are common components for both 6- and 7-axis robots. Additionally an Automatic Tool Change (ATC) can be added to match either CF boom or 7-axis units. Two manual tool changers will allow the attachment of part-specific aluminum tooling.

The CF Gondola arm has two lengths variants: 1000 mm and 1400 mm.

**Main 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
- Ergonomy: smaller tooling to be manipulated
- Less components and storage room
1. Carbon Fiber Boom for 6-axis robots | 2. Aluminum branches
3. Carbon Fiber Gondola

<table>
<thead>
<tr>
<th>Key figures</th>
<th>CF Boom</th>
<th>CF Gondola Arm 1.0/1.4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length (mm)</td>
<td>1450</td>
<td>1000/1400</td>
</tr>
<tr>
<td>(Robot Attachment—ATC)</td>
<td></td>
<td></td>
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<tr>
<td>Weight (Kg)</td>
<td>12</td>
<td>7.5/8</td>
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<tr>
<td>Payload capacity (Kg) *</td>
<td>100</td>
<td>90</td>
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</tbody>
</table>

* Robot payload should also be considered

7-axis robots with Carbon Fiber Gondola arm and aluminum branches

For more information please contact:

Asea Brown Boveri S.A.
DMRO Robotics
C/ de L’illa de Buda, 55
08192 Sant Quirze del Vallès,
Barcelona, Spain
Phone: +34 93 728 87 00
Fax: +34 93 728 86 82
e-mail: pas.support@es.abb.com

www.abb.com/robotics

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