Manufacturer and integrator of robots, ABB also develops a process expertise for the parts assembly and machines tending. To answer the current market expectations, ABB developed a range of simple, light and economic grippers based on a modular concept.

Standard solutions for all your projects
ABB developed modular solutions, easy to design and at a very competitive price for the manufacturing of handling grippers and derive products. Based on fully standardized components, these products allow you to:
- Obtain reduction of delivery time by using the « on the shelf » component.
- Use a common concept for grippers and derivative handling assistance products.
- Have a very quick maintenance and a simple use on site, thereby saving gripper spare parts.

Advantages to answer to workshop contraints
- Light solution
- An answer to ergonomics constraints
- Fast and economical design
- Modular and flexible
- Fast assembly and mechanical adaptation
- Small spare parts list
- Maintenance simple and cheap
- Dimensional constant of components
- Cost efficiency

A lot of applications and uses
The concept of these grippers with standard parts allows the possibility to realize easily and with a low price, light solutions for the following applications:

Handling:
- Assistance for manual handling
- Robotic handling for stamping, welding, assembly departments, …
- Load / unload of machines

Rack / stack:
- Grip / ungrip of parts one by one or more
- Handling of intercalary
- Rack / stack of boxes, packaging

Other products:
- Deposit structure for parts, grippers
- Tools for edge of line
- In/out station

Associated services
- Assistance for mechanical adaptations
- Spare parts
- Training for use and maintenance
- Documentation for maintenance
- Warranty for components

Low weight for the gripper, modularity, flexibility, economical solution

Standard bodydshop gripper

Standard stamping gripper
Handling grippers

**Technical characteristics and components**

<table>
<thead>
<tr>
<th>Examples of grippers integrating multiple functions</th>
<th>Availables functions</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Standard bodyshop gripper</td>
<td>- Structure with or without tool changer</td>
</tr>
<tr>
<td>- Standard stamping gripper</td>
<td>- Clamp function</td>
</tr>
<tr>
<td></td>
<td>- Support function</td>
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<tr>
<td></td>
<td>- Fix pilot function</td>
</tr>
<tr>
<td></td>
<td>- Mobile pilot function</td>
</tr>
<tr>
<td></td>
<td>- Suction cup function</td>
</tr>
</tbody>
</table>

**Specifications**

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Handling gripper</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight of the part</td>
<td>1 to 90 kg</td>
</tr>
<tr>
<td>Weight of the gripper</td>
<td>20 to 150 kg</td>
</tr>
<tr>
<td>Number of functions</td>
<td>1-8 in standards, other possibilities</td>
</tr>
<tr>
<td>Accuracy</td>
<td>0,5-2 mm</td>
</tr>
</tbody>
</table>

**Utilization conditions**

<table>
<thead>
<tr>
<th>Replace a component</th>
<th>Less than 5 mn</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cycle life of components</td>
<td>More the 1 million of cycles</td>
</tr>
<tr>
<td>Admissible temperature</td>
<td>-30 °C to 100 °C</td>
</tr>
</tbody>
</table>

**Derivate products:**
- Help for manual handling
- In/out station
- Tools for edge of line
- Deposit structure for parts, grippers or resumption of welding

**In/out station**

Data and dimensions may be changed without warning.

**Norms available:**
- standards DIN, CNOMO, NAAMS

**Option:**
- Possible to use a tool changer