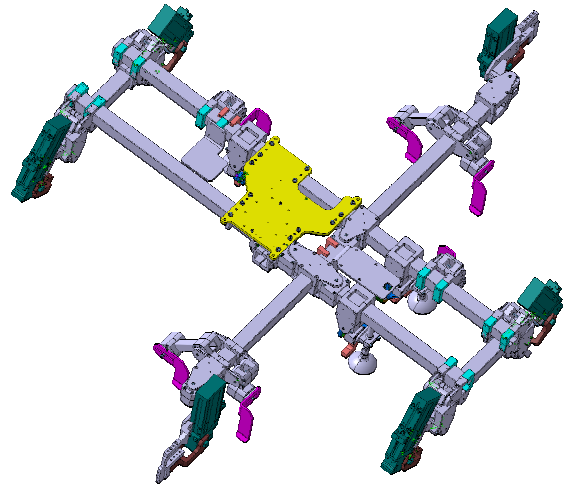


Handling grippers

Simple modular solutions, light and economical

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 derivate 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 constraints

- 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 / ungrasp of parts one by one or more
- handling of intercalary
- rack / stack of boxes, packaging

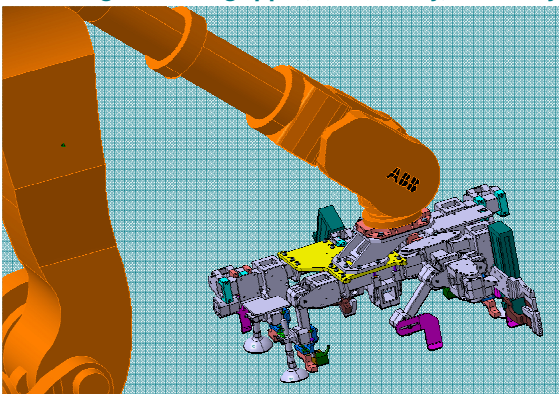
Other products:

- deposit structure for parts, grippers
- tools for edge of line
- in/out station

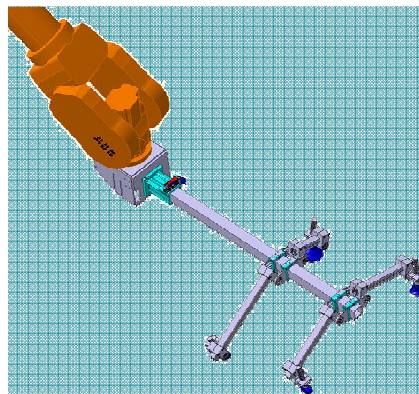
Associated services

- 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



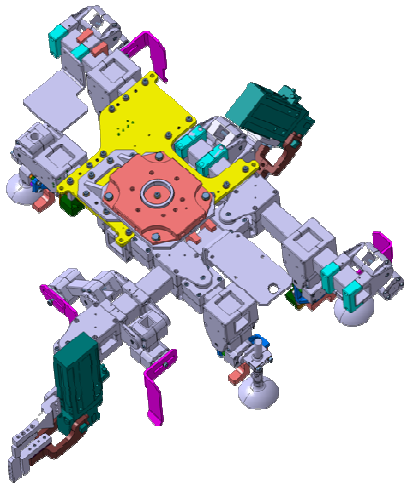
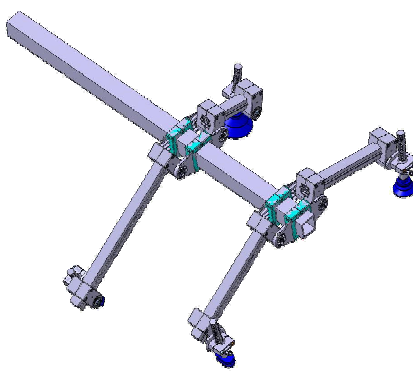
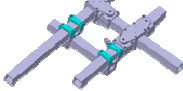
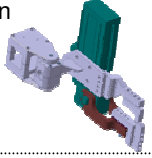

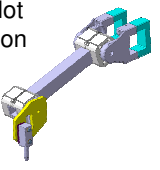
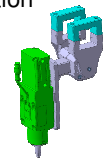
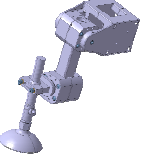
Standard bodyshop gripper



Standard stamping gripper

Handling grippers

Technical characteristics and components

Examples of grippers integrating multiple functions		Available functions	
<ul style="list-style-type: none"> Standard bodyshop gripper 	<ul style="list-style-type: none"> Standard stamping gripper 	<ul style="list-style-type: none"> Structure with or without tool changer 	<ul style="list-style-type: none"> Clamp function 
		<ul style="list-style-type: none"> Support function 	<ul style="list-style-type: none"> Fix pilot function 
		<ul style="list-style-type: none"> Mobile pilot function 	<ul style="list-style-type: none"> Suction cup function 

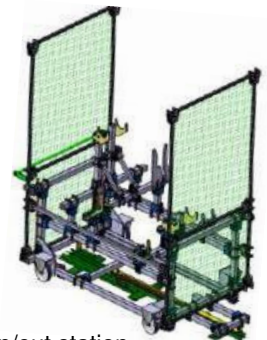
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Specifications

Characteristics	Handling gripper
Weight of the part	1 to 90 kg
Weight of the gripper	20 to 150 kg
Number of functions	1-8 in standards, other possibilities
Accuracy	0,5-2 mm

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

Utilization conditions

Replace a component	Less than 5 mn
Cycle life of components	More the 1 million of cycles
Admissible temperature	- 30 °C to 100 °C

Data and dimensions may be changed without warning.

Norms available:

- standards DIN, CNOMO, NAAMS

Option:

- Possible to use a tool changer