

The heart of Robotics



For the last three decades, ABB has always been committed to establish and improve its world-wide relationship with its customers, integrators, and partners.

Our dedication comes from the fact that the secret of innovative robotics processes relies on mutual trust. This is why we reach the leading position in this highly competitive market.

Today, in the automotive, steel, foundry, plastic and consumer goods industries, our product range and solutions open the door for optimizing production.

Around the world, our global lead centers, service centers and our selected suppliers bring our expertise, products, systems and services to your door.

Welcome to ABB – The heart of Robotics

ABB

www.abb.com/robotics

Complete product range for Body-in-White fixtures and end effector tooling

Simple, standard, cost efficient and reliable



The **heart** of Robotics



Simple, standard, cost-efficient and reliable



ABB, the expert in Body-in-White robot based assembly systems, offers you a complete range of robot end effector tooling, and stationary or mobile fixtures.

Standard solution for your entire projects

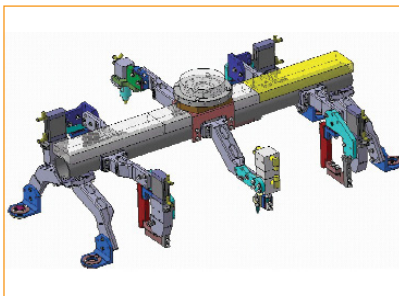
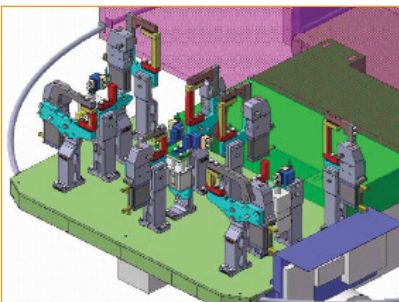


ABB has developed modular, easy to engineer and cost-efficient solutions for the manufacturing of end of arm tooling and stationary or mobile fixtures. Based on completely standardized components, these products offer you:

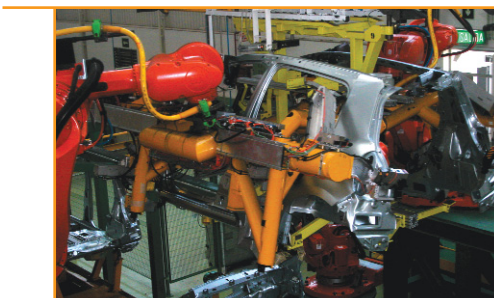
- Reduced timing for pre-releasing and on shelf stock standard components,
- Common architecture for end of arm tooling and fixtures,
- Optimized maintenance (replace damaged component in less than 5 mn) and reduced spare part inventory requirement.



The product engineering integrates additional advantages

You are an integrator, a Body-in-White line builder or a car manufacturer looking for end effector tooling or fixtures. The complete range of end effector tooling **IRB Gripper** and the fixtures **IRB Tool** are engineered to:

- Simplify assembly process,
- Reduce time to market,
- Drastically increase the accessibility for spot welding or other processes,
- Minimize assembly and inspection time,
- Guarantee an outstanding level of quality and rigidity,
- Maintain an excellent repeatability for component replacement.



In addition, the end user doesn't require a complete spare fixture or end effector tooling, but only spare components, which reduces the overall investment and operating cost.

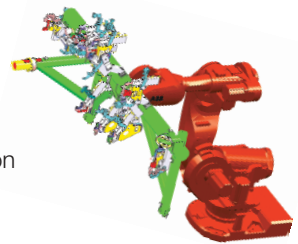
Just select the appropriate ABB end effector tooling or fixture

End effector tooling

The end effector tooling could be manufactured with:

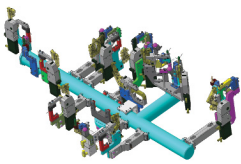
- Different standards: DIN, CNOMO, and NAAMS
- Different brand name of clamping device

Tool changer to enhance the future flexibility of the solution



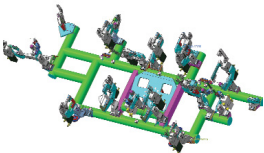
IRB Gripper - Small

Part weight	1 to 10 Kg
End effector weight	30 to 50 Kg
Number of clamping and locating units	4 to 6



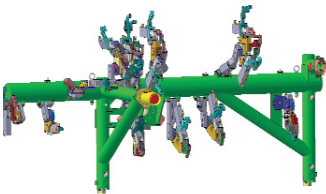
IRB Gripper - Medium

Part weight	5 to 30 Kg
End effector weight	50 to 120 Kg
Number of clamping and locating units	6 to 8



IRB Gripper - Large

Part weight	20 to 80 Kg
End effector weight	150 to 350 Kg
Number of clamping and locating units	8 to 14



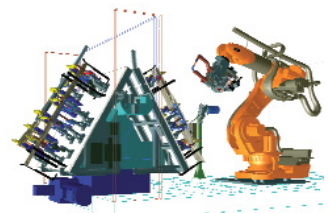
IRB Gripper - XLarge

Part weight	60 to 90 Kg
End effector weight	300 to 400 Kg
Number of clamping and locating units	14 to 18

Fixtures

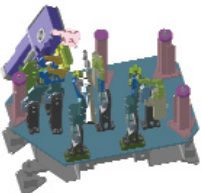
The fixtures could be manufactured with:

- Different standards: DIN, CNOMO, and NAAMS
- Different brand name of clamping device



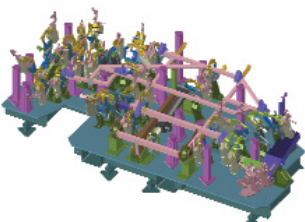
IRB Tool - Small

Part weight	1 to 10 Kg
Number of clamping and locating units	4 to 6



IRB Tool - Medium

Part weight	5 to 25 Kg
Number of clamping and locating units	8 to 10



IRB Tool - Large

Part weight	20 to 80 Kg
Number of clamping and locating units	10 to 20

Just select the appropriate component to realize your end effector tooling or fixture

1	Beams	2	Risers
3	Blades	4	Clamping finger, Template
5	Locating pins	6	Clamping arm
7	Centering bush	8	Supports and locating pin supports
9	Spacers	10	Square support
11	Pre-locators	12	Stop blocks
13	Pneumatical manifold		

The adaptable specific components are not part of standard items shown.

