



10 Good Reasons to invest in Robots

- Reduce operating costs
- Improve product quality & consistency
- Improve quality of work for employees
- Increase production output rates
- Increase product manufacturing flexibility
- Reduce material waste and increase yield
- Comply with safety rules and improve workplace health & safety
- Reduce labour turnover and difficulty of recruiting workers
- Reduce capital costs (inventory, work in progress)
- Save space in high value manufacturing areas



Robotics solutions for Aerospace Industry



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Robots can make you more competitive!



Robots have been proven to deliver a host of benefits in a wide variety of applications. End users introducing robots into their production processes have typically seen a significant transformation in their productivity and efficiency, with higher levels of output, product quality and flexibility amongst the many improvements reported.

Nowadays, the aerospace industry faces more and more critical stakes, bound to the stricter environmental legislation, to the competition of emerging countries and to the difficulty of finding a qualified workforce. To this are added the pressures to reach higher levels of productivity, quality and safety.

In this context, it becomes essential to find new industrial solutions for:

- adapting to the more and more strict environmental constraints,

- having a qualified workforce in a sector where the staff is essentially constituted of engineers and executives,
- accelerating the activity in research and development to remain more competitive than the major rival countries and mastering the technology transfers,
- maintaining competitive prices to answer the economic constraints.

Robots that perfectly fit your requirements

ABB offers a wide range of industrial robots, software and peripherals to suit your market and processes constraints.

A large range of robots

- from the smallest mechanical unit handling a few kilos up to the IRB 7600 robot with a load capacity of over 500 kg,
- specific protections to work in demanding environments - IP67, EX for explosive atmospheres, clean room, chip protection...
- a same flexible robot controller, the IRC5. Modular system, equipped with a totally innovative color ergonomic teach pendant, the FlexPendant, allowing to monitor up to 4 robots in synchronized mode.

High performance software

- software for simulation and off-line programming like RobotStudio,
- application software such as RobotWare to manage various processes,
- software for controlling your production data and increasing the uptime of your robot system, for instance WebWare or ShopFloor Editor.

Standard peripheral equipment

- track motions to enlarge the robots working range,

- parts positioners for welding processes,
- bells and guns for paint applications.

ABB is a leading supplier of industrial robots, modular manufacturing systems and service. A strong solutions focus helps manufacturers improve productivity, product quality and ensure worker safety. ABB has installed more than 160,000 robots worldwide.

ABB's offer for Aerospace Industry

A wide variety of robotized solutions

Whatever the application you wish to robotize, ABB, thanks to its expertise in robotics, is able to offer you a solution studied and tested by its own teams of engineers, or through a network of specialized partners, according to the process concerned.

Material handling



- Press unloading
- Handling
- Foundry
- Forging

Composites applications



- Mould coating
- Mould cleaning
- Fiber placement

Finishing



- Shotpeening - Sand blasting
- Plasma, Waterjet cutting
- Deburring
- Grinding - Polishing

Machine tending



- Machine tending
- CNC machine tending
- Grinding machine tending

Surface treatment



- Spraying - Painting
- Laser treatment, Shot blasting
- Cleaning
- UV Curing
- Surface activating
- High pressure waterjet washing

Assembly



- Gluing
- Drilling - Riveting
- Welding
- Control, inspection, vision
- Eddy-current inspection

Specialized partners

Whether they are integrators or machines builders, our partners work on various markets and for different applications. They are trained to use our products and benefit from all ABB technical support.

Whatever the process to robotize, ABB has the network of privileged partners, experts chosen as per each of your process.

Safeguard your investment

ABB has a global and unique organization of Customer Service, which offers a wide range of products and services intended to increase the availability performance of your equipment, to improve your process and to optimize your global productivity.

From the training of your teams to the performance improvement contracts, through parts and logistics as well as robots retrofits, ABB brings you a customized answer...

