

## Industrial and service robotics

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Experience the future with innovative robotics and groundbreaking examples of man-machine collaboration. Exciting encounters: See the latest industrial models in actual use directly at the fair.

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### From science fiction into the factory

Robotics, a key technology in smart automation, is in the midst of a boom. The fascinating figures that we discovered in science fiction are now real workers. Equipped with modern safety technology, collaboration-capable robots are making their way into factories in ever increasing numbers. “Cobots” are becoming genuine colleagues to their human co-workers.

Industrial robots are already a significant competitive factor in industrial manufacturing processes. As a key element in automation, they are the key factors in strategic business decisions. Automation solutions involving robotics are already being used successfully in major corporations and SMEs alike.

automatica is the only trade fair that gives manufacturers a platform for presenting their extensive range of robot technology in both the industrial robotics and [service robotics](#) sectors.

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### Robotics at automatica

Explore current and future scenarios for using robotics in your company:

- Industrial robots by type of design: gantry robots, SCARA robots, vertically articulated robots, articulated robots, parallel link robots, micro robots, special designs
  - Components for robot systems: jigs and fixtures, tool-changing systems, measurement systems, peripherals
  - Industrial robots for specific applications
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### German industry continues to break sales records in 2016

- Sales in the German robotics industry increased by 8 percent, setting a new record of EUR 3.6 billion.
- The share attributed to “general industries”, i.e. industries outside the automotive sector, increased from 41 percent to 46 percent.
- Production in Germany increased by 21 percent in 2016 with 23,933 units produced.
- 2016 almost 16,000 were employed in the German robotic industry.

**Key figures from 2011 to 2016:**

- Between 2011 and 2016 the number of robots produced in Germany increased by an average of 5 percent per year.
  - Annual exports also increased by 8 percent annually.
  - This provides a stagnation for the average rate of change for the domestic market between 2011 and 2016.
  - More than 7 percent of global market volume was generated in Germany.
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