

## 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 and service models in actual use directly at the fair.

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### Industrial robotics: 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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### Industrial 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.
- 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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## Made for humans: Professional service robotics at automatica



See the latest generation of professional service robotics at automatica. Get fascinating insights into everyday life in the future: Service robots can be used as assisting nursing carts in hospitals, as inventory assistants in stores, as driverless transport systems and as personal helpers for people.

From the laboratory into the working world: Professional service robotics is developing at a rapid pace. Prototypes developed by the scientific sector are evolving and can now be used in commercial applications. automatica is supporting this trend by giving service robotics its own exhibition sector.

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## Key facts about professional service robotics at automatica 2016

- ✓ 76 exhibitors from 19 countries
  - ✓ 6,000 square meters of exhibition space
  - ✓ Some 15,000 visitors
  - ✓ 97 percent of those visitors gave the sector a rating of good, very good or excellent
  - ✓ 95 percent of the sector's exhibitors praised automatica's character as a leading trade fair for service robotics
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## See the entire range of professional service robotics

The exhibition sector for service robotics allows manufacturers of service robots, service robotics components and turnkey products as well as renowned research organizations to present marketable products and innovative developments.

B2B applications for service robotics at automatica:

- Construction industry
- Inspection and maintenance
- Agriculture
- Logistics
- Medical technology
- Mobile platforms
- Production assistance
- Professional cleaning
- Monitoring

The **Service Robotics Demopark** allows you to safely touch robots and interact with them. You will see how robots can help you to perform tasks or perform them autonomously. In the **Service Robotics Show**, you will experience the latest robot systems in exciting live demonstrations. All presentations will also be projected onto an oversized screen.

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## From the industry, for the industry

Our partnerships with the industry's most important trade associations and relevant media attest to the fair's superior expertise and outstanding contacts.



Within the VDMA, the Robotics + Automation Association represents the interests of approximately 280 companies that are providers of Integrated Assembly Solutions (assembly and handling technology), Machine Vision and Robotics.



## EUnited Robotics

The EUnited Robotics trade association was founded in 2004. Its members are robotics manufacturers, suppliers and system integrators in Europe. EUnited Robotics gives all associated partners—from research institutes to national trade associations and users—an interdisciplinary platform.



### **International Federation of Robotics (IFR)**

Founded in 1987, the International Federation of Robotics (IFR) is the worldwide trade association for the robotics industry and robotics research institutes. It serves as an umbrella association for all national robotics trade associations. The IFR also coordinates the annual International Symposium on Robotics (ISR) and publishes the "World Robotics" statistics once a year.

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