

# Intelligent Solutions for Metal Fabrication

From your Partner in Productivity

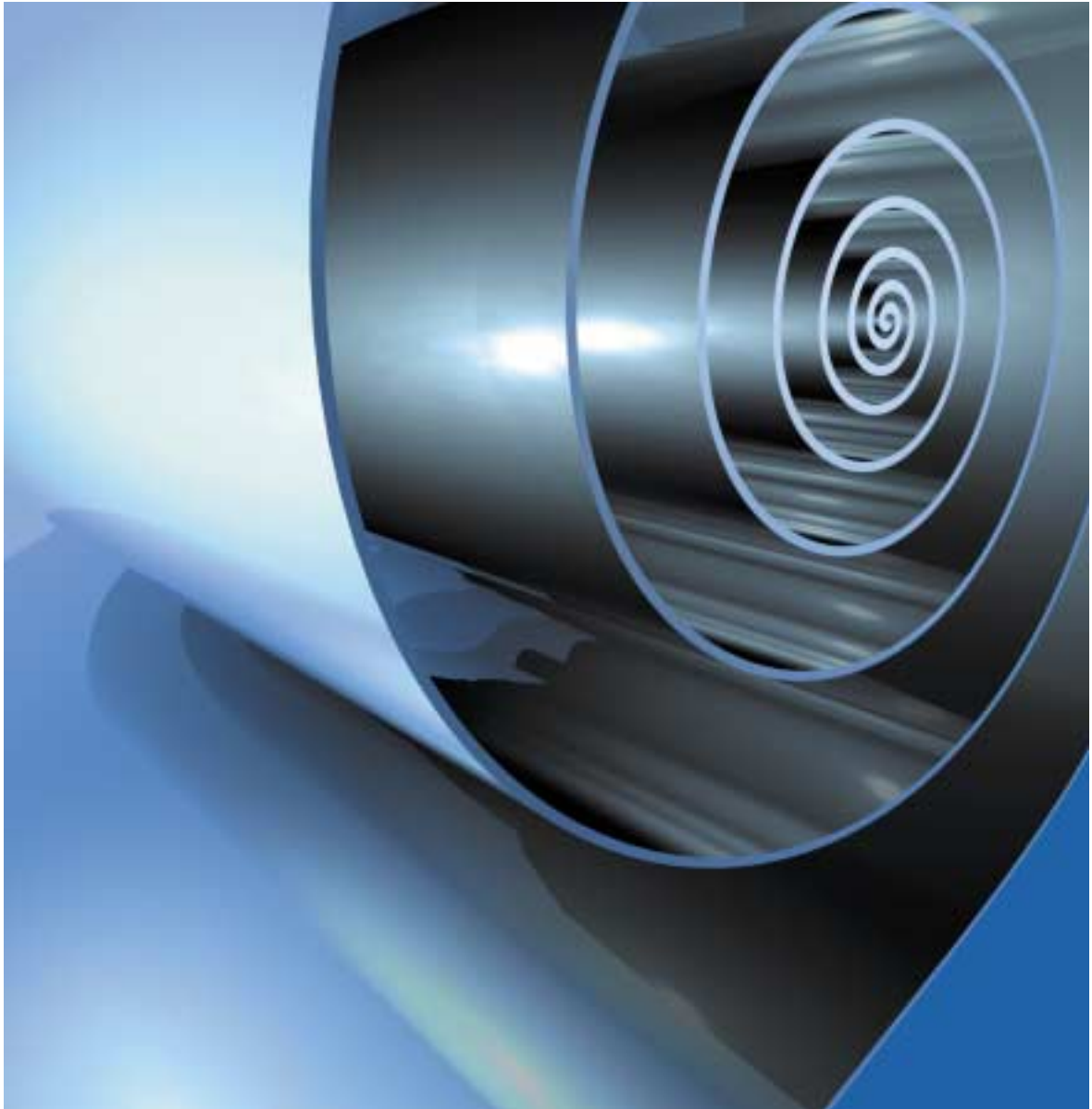


ABB Automation



# Benefit from our Experience



Since the development of the first industrial robot 25 years ago, ABB has consistently set the pace for innovation in the robot industry. Today, in the metal fabrication industry, ABB is a leading supplier of robot based automation solutions for manufacturers of:

- ▶ **Automotive parts**
- ▶ **Cabinets**
- ▶ **Components and parts**
- ▶ **Furniture**
- ▶ **Two wheelers**
- ▶ **Off-road- and industrial vehicles**

## The advantages of our offer

### Innovative Technology

ABB offers the market a wealth of experience based on more than 80,000 robots installed around the globe – fifty percent of which are employed in metal fabrication processes. From this, we have developed extensive industrial process know-how and core application expertise to help you to get the most from your robot investment.

### Highest Availability

Solutions offered by ABB provide a high plant availability and increased production capacity by using standard well proven components. That means for you: trouble-free production around the clock!

### Improved Quality

Due to our long experience and comprehension of automated processing as well as the use of reliable robots which ensure path accuracy, repeatability and short cycle times we are able to ensure a consistent quality of your products.

### Quick Amortization

ABB offers a complete range of equipment, systems, and services which help you to optimize your production processing by saving energy and time. That guarantees highest efficiency and your investments amortize within a short period of time.

# Solutions for the entire Production Process

## Service

- ▶ Process optimization
- ▶ 24-hour-hotline
- ▶ Plant refurbishment
- ▶ Full service contracts
- ▶ Training
- ▶ Used robots exchange



## Industrial<sup>IT</sup> Software

- ▶ Planning (simulation)
- ▶ Design (simulation)
- ▶ Commissioning (off-line programming)
- ▶ Operation (process software)
- ▶ Maintenance (remote diagnostics)

## Standardized solutions

- ▶ Advanced cell concepts
- ▶ Robust and standardized components
- ▶ Flexible application
- ▶ Quick installation and relocation
- ▶ Easy maintenance and servicing



## Engineered solutions

- ▶ Customized solutions
- ▶ Open controller interfaces for various applications
- ▶ Competence in fixture and gripper design

# Improve your Production Process



## Machine tending

- ▶ Suitable for a variety of production processes and operating conditions
- ▶ Optimal software solutions for complex machine-robot-interfaces
- ▶ System solutions provided by one partner



## Cutting

- ▶ Innovative solutions for plasma, oxygen and laser cutting
- ▶ Experience in 3D cuts
- ▶ Precision cutting utilisation of advanced calibrating methods and accurate path following properties



## Material handling

- ▶ Flexibility in size, weight, and format of the materials
- ▶ Mobile cell concepts
- ▶ Long expertise in gripper design
- ▶ Optimised flux of materials (palletising, depalletising)



## Welding

- ▶ Wide range of welding products (power sources, positioners)
- ▶ Turnkey systems
- ▶ State-of-the-art process technology (light metal welding)
- ▶ Low production down-times due to advanced software tools (off-line programming, simulation)
- ▶ Compact, standardized welding cells
- ▶ Short cycle times by quick robotic movements



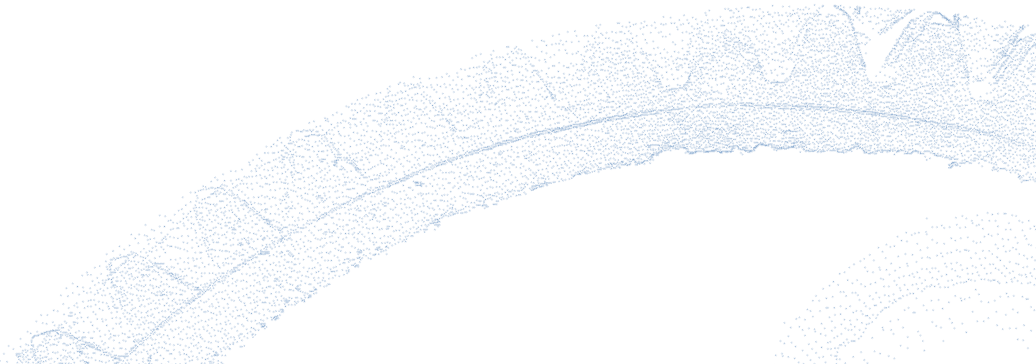
## Forming

- ▶ Robot-based press bending machines
- ▶ Robot-based roller hemming stations
- ▶ Integration in existing plants
- ▶ Process-oriented software solutions
- ▶ Off-line programming
- ▶ Pre-designed modular system
- ▶ Improved working conditions
- ▶ Constant product quality even for high output ratios



## Surface treatment

- ▶ Reduced installation period due to modular components
- ▶ On-line programming to optimise availability
- ▶ Reduced environmental emissions due to tight control of paint application and minimal overspray





## Our offer:

- Versatile services
- Software
- Process know-how
- Globally present
- State-of-the-art range of products
- Financial advisory services
- 25 years of experience
- Consulting in finding your individual automation solution

## Your advantages:

- Innovative technology
- High plant availability
- Best product quality
- Amortization within a short period of time

ABB Flexible Automation can significantly improve your manufacturing process through our extensive range of products, systems and service solutions.



**ABB Flexible Automation worldwide locations**

**Argentina** Asea Brown Boveri S.A. Buenos Aires +54 11 4 229 5500/5600 **Australia** ABB Industry Pty Ltd. Lilydale +61 3 9735 7222 **Austria** ABB AG Wien +43 1 60109 3721 **Benelux** Asea Brown Boveri S.A.-N.V. Zaventem +32 2 718 6311 **Brazil** Asea Brown Boveri Ltda. Osasco-Sao Paulo +55 11 7088 9111 **Canada** Asea Brown Boveri Inc. Brampton +1 905 460 3000 **China** ABB Engineering (Shanghai) Ltd Shanghai +86 21 504 80 101 **Czech republic** Asea Brown Boveri s.r.o. Praha +420 2 2283 2111 **Denmark** ABB Energi & Industri A/S Skovlunde +45 44 50 44 50 **Estonia** ABB Esti AS Tallinn +372 6 711 800 **Finland** ABB Service OY Helsinki +358 10 222 000 **France** ABB Flexible Automation s.n.c. Saint Ouen l'Aumône +33 1 3440 2525 **ABB Body-in-White SA** +33 1 3040 4700 **Germany** ABB Flexible Automation GmbH Friedberg +49 6031 850 **Hungary** ABB Ltd. Gyor +39 96 512 950/953 **India** Asea Brown Boveri Ltd. Calcutta +91 33 470 1811 Bangalore +91 80 839 5181 **Italy** ABB Flexible Automation S.p.A. Milano +39 02 26232 1 **Japan** ABB K.K. Tokyo +81 3 5482 2160 Kobe +81 78 991 4508 **Korea** Asea Brown Boveri Ltd. Seoul +82 2 528 3070 **Malaysia** ABB Industrial and Building Systems Sdn Bhd Kuala Lumpur +60 3 972 1888 **Mexico** ABB Sistemas S.A.de C.V. Mexico + 52 5 328 1400 **Norway** ABB Flexible Automation A/S Bryne +47 51 489 000 **Poland** ABB Automatyka Sp zo.o. Warsaw +48 22 6080 785 **Portugal** Asea Brown Boveri SA Amadora + 351 21 425 6335 **Romania** Asea Brown Boveri S.R. Bucharest +40 1 310 4380 **Slovak Republic** ABB Elektro s.r.o. Bratislava +421 7 4926 6314 **Slovenia** Asea Brown Boveri d.o.o. Ljubljana +386 61 131 5126 **South Africa** ABB Automation (Pty) Ltd Alrode + 27 11 864 5340 **Spain** ABB Flexible Automation S.A. Sant Quirze del Vallès +34 93 728 8700 **Sweden** ABB Flexible Automation AB Västerås +46 21 344 500 Laxå +46 584 82000 **ABB Robotics AB Västerås** +46 21 34 40 00 **Switzerland** ABB Flexible Automation AG Zürich +41 1 435 6555 **Taiwan** Asea Brown Boveri Ltd. Taipei County +886 2 2577 6090 **Thailand** ABB Industry Ltd. Bangkok +66 2 709 3346 **Turkey** ABB Elektrik Sanayi A.S. Istanbul +90 216 365 29 00 **United Kingdom** ABB Flexible Automation Milton Keynes +44 1908 350 300 **USA** ABB Flexible Automation Inc. New Berlin WI +1 262 785 3400 Auburn Hills MI +1 248 391 9000 Welding Systems Div. Fort Collins CO +1 970 225 7600 Paint Automation Div. Indianapolis IN +1 317 876 9090

Business Area Flexible Automation Headquarters  
**Switzerland**, Zürich +41 1 319 6125

[www.abb.com/robots](http://www.abb.com/robots)