



Metal and Industry

Robot-Based Solutions for the Metal, Wood and Plastics Industry

ROBOTOOL[®]



Welcome to RoboTool

RoboTool has been actively working on the development and production of robot-based solutions for industrial production processes since 1997.

Our robotic solutions are primarily based on free-arm robots and gantry robots from two of the world's leading manufacturers of industrial robots, ABB and Güdel. We are a partner of ABB and an importer and integrator of Güdel robots in Denmark. Our employees have competencies covering the whole technological process, from concept development and project management, through advanced programming tasks, all the way to the more craftsman-like types of expertise required during the production of the robotic tools and the testing and implementation of complete solutions involving robotic technology.

Our goal is to create an international company that offers automation solutions based on robotic technology to customers all over Europe. RoboTool should namely continue to be not only a company with big technological competencies, but also a company where the mindset is that the best solution is the simplest solution and where we always seek to solve problems at the simplest level, both technologically and organisationally. Last but not least, RoboTool and all of our employees are constantly striving to work in accordance with the company's motto: "We do what we say and we say what we do."

RoboTool's goal is to constantly be at the cutting edge of development of robotic technology solutions, in close cooperation with and for the benefit of our customers. RoboTool nowadays accounts for more than 100 robotic solutions implemented in Danish industrial enterprises, from very small companies to some of the largest Danish industrial groups.

Why RoboTool?

RoboTool provides you with a comprehensive solution where we are responsible for the whole technological process, from concept and design to production and running-in.

RoboTool conducts the preliminary examinations which are necessary for determining whether automation would be profitable. Our thoroughly prepared design specifications then ensure that the customer is kept up to date during the whole process of development and production of robotic tools and software.



Metal and Industry

By designing many diverse solutions over the years, RoboTool has developed extensive competencies in the area of industrial automation.

RoboTool's tools and software do not give the customer only product optimisation and higher profitability but also quality assurance in the form of 100% uniformity of all manufactured elements. At the same time, RoboTool's robotic solutions for metal working and industrial production bring a clear improvement to the working environment as the monotonous, dirty and physically demanding work is increasingly being taken over by the robots. This applies to a multitude of production tasks involving sawing, milling, grinding and lacquering, as well as packaging and palletising of the ready produce.

RoboTool is Denmark's leading robotic company when it comes to grinding, milling and lacquering solutions. Our patented wood lacquering installations are often integrated with larger production plants but can also be supplied as a separate production unit.

Metal and Industry Processes

RoboTool develops special robotic tools and software needed for efficiency improvements and optimisation. Robotic technology offers a multitude of different opportunities in the form of processing tools for production tasks, handling tools for moving a product from one position to another one or equipment with, for example, more programs and robotic tools.

Typical Processes

Typical processes RoboTool can help companies in metal working and industrial production with include, as follows:

Processing:

- Grinding
- Milling
- Drilling
- Sawing

Operation of:

- Brake press
- Bending machine
- CNC machine
- Press
- Moulding machine

[Read more on robotool.com](#)

Wood and Plastics

The reason why the Danish furniture industry is known all over the world is not only because of its beautiful design but also because of the quality of fabrication, which is perfect to the smallest detail possible. The same applies to a multitude of wood products such as, for example, the exclusive B&W speakers which look almost like a sculpture in the living room.

RoboTool's first projects ever were delivered to the wood industry. We have since solved a number of robotic problems for the wood and plastics industry, including for the world-famous B&W speaker factory. Robots equipped with RoboTool's tools and software are namely capable of meeting the very high requirements for uniformity, quality and finish placed by these two industries.

Typical Processes

Typical processes RoboTool can help companies in the wood and plastics industry with include, as follows:

- Drilling
- Sawing
- Milling
- Grinding
- Sanding
- Polishing
- Lacquering
- Handling

[Read more on robotool.com](#)

This is How We Can Help Your Company

Metal and Industry

Efficiency, quality, functionality and stability are the four key words RoboTool will use during a visit to your industrial enterprise for the purpose of assessing the possibilities for replacing manual work processes with robotic technology.

RoboTool provides solutions even for the most advanced manufacturing, material processing and handling tasks.

Wood and Plastics

RoboTool's year-long experience in robotic technology for the wood

and plastics industry enables us to provide solutions even for the most advanced production tasks, be it drilling, sawing, milling, grinding, sanding, polishing or lacquering of diverse materials.

Specific Proposals

We come up with specific proposals for replacing the current manual working process with robotic technology so as to optimise production and increase your company's efficiency and profitability.

RoboTool simultaneously provides guidance as to how the use of

robotic technology can improve the working environment for the company's employees by automating monotonous, dirty and physically demanding work.

Contracting

Once we sign a contract, RoboTool's project team will prepare a design specification with 3D drawings of the new robotic tool, technical specifications and a complete overview of delivery deadlines and testing periods so that you can plan your production in accordance with the date on which the installation can finally be put into operation.



Service

Just like all other manufacturing plants, robots and robotic tools require maintenance. We strongly recommend preventive maintenance which will help you avoid costly production stoppages and will minimise the wear of the installation.

Individual Service Agreements

Service agreements are formulated at several different levels, depending on your specific need. A service agreement with RoboTool ensures systematic maintenance of your robotic installations, be it of the robot itself or of the robotic tool, and enables you to perform software updates.

Service Matching Your Company

Preventive maintenance minimises the wear of your robotic production facility and simultaneously contributes to reducing breakdowns and production stoppages. The profitability of an industrial robot is based on its ability to produce or process a very large number of units within a short period of time. This is exactly the reason why a production stoppage may be rather costly since a breakdown in one segment usually affects the flow of the rest of the production.

The same RoboTool fitter typically performs the service and maintenance inspections of the same production plant at all agreed intervals. This contributes to a good dialogue and experience sharing between RoboTool's fitter and the company's employees who operate the installation on a daily basis.

24-HOUR HOTLINE

In order to reduce the effect of a possible production stoppage to the absolute minimum, RoboTool has developed a complete service package.

By opting for it, you will no longer need to think of the maintenance of your robots or their tools. The service package namely comprises preventive maintenance of the whole installation.

You are additionally covered by RoboTool's hotline and therefore have access to our technical expertise.

[Read more on robotool.com](#)

This is How We Work

We at RoboTool consider the robot itself to be only a component in a comprehensive solution whose purpose is to optimise the customer's manufacturing or processing processes.

A project usually starts with an assessment of which manual work processes can beneficially be replaced by robotic technology performed by a technically trained consultant from RoboTool. We simultaneously provide assistance with the calculation and analysis of the payback period of an investment in robotic technology.

We then formulate, in cooperation with the customer, the tasks that RoboTool's robotic tools are supposed to perform. We investigate how the running-in of the new industrial robot can be adapted in the best way possible to the company's production, planning and organisation and need for employee training.

Design Specification

When we sign a contract, the first thing RoboTool's project team does is prepare a design specification which serves as a supplement to this contract. This specification contains

descriptions and design principles of the installation's design. This provides a unique opportunity for implementing minor adjustments before the robotic tools and software are put into production.

The design manual simultaneously contains a complete overview of all delivery deadlines and testing periods, thereby enabling the customers to plan their production in accordance with the date on which the installation can finally be put into operation.

Testing and Running-In

When RoboTool's employees produce equipment for robot cells, program and finally assemble all elements into a complete installation, our high professional competencies are complemented with values such as respect and orderly conduct. All installations are run in and tested at RoboTool before they are set up at the customer so that the final assembly and running-in causes only a minor production disturbance to the customer.



TURNKEY SOLUTIONS

RoboTool's solutions often comprise a combination of robots, tools and software. These parts are central and vital elements in RoboTool's Turnkey Solutions.

RoboTool is responsible for the development of the robotic tools and software in its own development departments and workshops. All installations are thoroughly tested at RoboTool prior to delivery and consulting and training of the company's employees is often part of the comprehensive solution. We use only quality products and thoroughly tested components and software in our Turnkey Solutions which naturally also comprise follow-up and service.

[Read more on robotool.com](#)

What Can We Do for You?

RoboTool is a highly specialised company in the development of industrial robot processes. We are responsible for the whole process from concept and design to production and running-in and function as your extended R&D department in all stages of any given project.

RoboTool has been working on the development and implementation of industrial robots since the robot made its first baby steps in Denmark. Today, there are more than 100 robot-based installations with tools and applications developed by RoboTool in operation in Denmark's industrial enterprises. Our partnership with ABB and Güdel simultaneously enables us to deliver robots from some of the world's leading manufacturers and thereby guarantee both high quality and impeccable operational reliability.

Close Cooperation with Your Company

It is of paramount importance for us to develop robotic solutions in close cooperation with our customers so that they can take optimum advantage of the technology. This is why consulting and training of employees is often a natural part of our product deliveries.

RoboTool has built up a vast expertise over the years and now develops robot-based solutions in more or less all types of industrial enterprises. We take pride in our list of references that includes some of Denmark's largest and most innovative companies.



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