

ATEC GmbH Burdastr. 11 77746 Schutterwald

PRODUCT OVERVIEW

The company ATEC is a medium-size company **specializing in automation solutions** for different industries.

The know-how and innovation potential of ATEC has become known far beyond the borders of Germany. For example, ATEC products are exported to nearly all the big markets in the world (China, France, Poland, Czechoslavakia, etc.).

Some of our major customers are international market leaders such as Rettig Heating Group B.V, Delta Radiatoren GmbH, Hoppe AG, Arbonia, Kermi GmbH, Schöck Bauteile GmbH....

If you need some more information about reference customer please feel free to contact us.

At ATEC you can find qualified contacts for your innovative products and advanced process technologies, high system efficiency as well as through total solutions are required.

You can contact our experts to inform yourself without obligation of the available solution options and market-oriented plants and systems for the manufacture of your products.

We look forward to your enquiry!

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ATEC – Reference machines



- ➡ High powered medium frequency welding machine for radiator elements. 12 welding circuits simultaneously and individually adjustable Height 400 3000
- ➡ High powered medium frequency welding machine for radiator elements. 12 welding circuits simultaneously and individually adjustable Height < 400</p>
- ⇒ Spot welding machine for tube radiators
- ⇒ Short length spot welding machine Height < 260mm
- ⇒ Special welding machine for towel radiators
- ⇒ Head-end half parts welding machine
- ⇒ Debarring machine for tube radiators
- ⇒ Internal grinding machine for tube radiators
- Welding machine for tie bars. Welding of three bars (steel stainless steel steel) simultaneously
- ⇒ Automatic machining for welding electrode
- ⇒ Double element welding machine for radiators elements
- ⇒ Resistance welding machine for towel radiators
- ⇒ Complete production lines for towel radiators
- ⇒ CNC die cutting system for stainless steel, steel and aluminium tubes
- ⇒ 3 axis handling systems for stacking





We are also open if you have any questions about special production machines.



Production facilities for radiator manufacture

Tubular radiators Towel radiators Buried convectors





Worldwide, ATEC manufactures efficient and extremely economic complete solutions for the manufacture of

Tubular radiators - towel radiators - convectors



Renowned customers have been placing their trust in the extraordinary reliability and innovative process technologies provided by ATEC production facilities for many years.



Put your trust in a reliable partner with over 20 years of experience and outstanding know-how in the manufacture of radiator production facilities.



Excerpts from our production range.



High-performance welding units for radiator elements

Fully-automated universal welding unit for simultaneous welding of headpieces (left hand / right hand) to radiator element tubes.

<u>Workpieces</u>: 2-column - 6-column radiator elements <u>Welding process time</u>: < 60 milliseconds <u>Welding seam length</u>: approx. 950 mm



Universal grinding machine for radiator elements

CNC-controlled weld seam - internal and external driving machine for radiator elements. Absolute highest quality grinding results due to electronically-regulated and individually adjustable grinding curve control system. Grinding process time : <0.7 seconds



Towel radiator production facilities

Complete unit for towel radiator manufacturer. Fabrication of collection tubing and horizontal tubes with automatic merging and welding to towel radiator. Various tube end sealing technologies and geometries possible.



Aluminium convector production facility

Complete unit for the manufacturer of heater convectors with reflectors in aluminium. Manufacture of aluminium fins with subsequent automatic stacking of fins and pressing into heater elements



Installation unit for brake pipes

Fully automated assembly of various parts into brake pipes in stainless steel. All joint parameters (force / route) are continuously monitored and checked for safety reasons.Fitted parts are soldered pressure-sealed after the joining process.





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ATEC FEATURES:

- ▶ extensive and objective applications consultation based upon engineering excellence
- ► test welding to streamline welding parameters for prototypes
- contract welding of small and medium lot sizes
- complete resistance and laser welding from the basic machine to the fully automaticproduction line







Products from ATEC – production lines



<u>door sign steel reinforcement with a steady bush</u> (Steel-Steel ● Stainless steel-Stainless steel)

the problem: the solution:

blem:securing high-tensile welded jointution:annular projection welding with welding processregulation and monitoring



door handles with cover (St-St / VA-VA)

the problem:sealing pipe ends withouta gapthe solution:annular projection welding



steel furniture pie-to-pipe welded joints

the problem:	firmly joining pipes with a minimum of welding
	seam preparation
the solution:	90° welding with network frequency equipment



steel sheeting design

the problem: the solution:

firmly joining steel sheeting design multispot welding with welding parameter regulation



grating

the problem:making U profiles on forming machine and
welding with transverse rodsthe solution:joining the grating with resistance welding



collector) pipes with inside threads

the problem:placing inside threads in thin-walled pipes without
welding in added screw socketsthe solution:moulding drumming and threads (non-cutting (!)
manufacturing process with high-tensile threads)

www.atec-automation.com



Tube Radiator production – Universal element welding machine ... we help you reducing the production costs!

The medium-frequency welding system specifically developed for the tube radiator production will make it possible to manufacture **head-end-tube connections** in **top quality** and, at the same time, with an **extremely high productivity**.

Major advantages and features at a glance:



- up to 2.700 radiator elements per hour cleanly welded
- hardly visible weld seams in excellent weld seam quality
- hardly any, partly no finishing work whatever as compared with conventional techniques
- no weld splashes on the weld seam, especially not in the arched area of the head-end
- high process safety ensured for the seal welds of all tube-tube connections by the singular (!) welding current control with up to 12 weld seam connections being monitored and controlled at the same time
- high production flexibility thru partly fully automatic retooling processes for the welding of different radiators element types (2-3-4-5-6 column elements)
- energy-efficient technology with a permanently low energy consumption READY for Future











operating the machine is made easy and can be learned intuitively thru the intelligent, highly sensitive industrial touch screen

PS: By the way... you can order from ATEC on request complete production lines with production units that are optimally geared to each other and have a demand-oriented degree of automation.

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