



The key to precise pipe fitting

The combination of SCOPELINK,
BENDING MACHINE and ROBOFIX
provides the complete solution for an
economical way of pipe fitting.



TRACTO-TECHNIK

Tracto-Technik can provide a complete production program from beginning with taking measurements to ending with the manufactured parts.

Pipe Fitting Connections

**Exact measuring,
precise manufacturing,
installing and securing.**

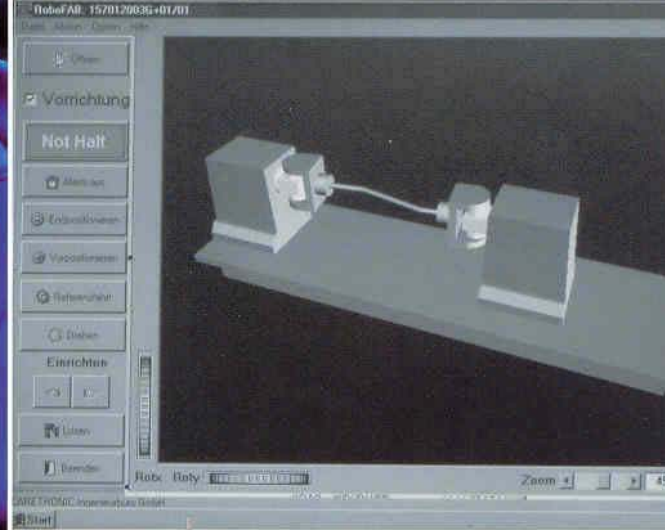
Are you aware of this problem? To complete a pipe installation you may have only one missing connecting piece. To produce this item is time-consuming and costly. There is always a possibility of errors, starting with taking measurements, making a pattern, processing the data of the pipe geometry, manufacturing, verification of the fitting and ending with the final installation, all of which can increase costs.

The components SCOPELINK, BENDING MACHINE and ROBOFIX make up a system, which provides a complete solution to pipe installations. The coordinates of the pipe installation are determined on site (plant, ship, drilling rig or any construction site etc.) by the sturdy 3D-Isometric arm SCOPELINK in an efficient and quick manner so that they can be conveyed directly to the manufacturing shop. The verification of a precise fit and tack welding of the flanges is done with the aid of the 3D tack-welding device ROBOFIX after the bending has been completed. You can be absolutely certain that the pipe will fit correctly when transported to the construction site.

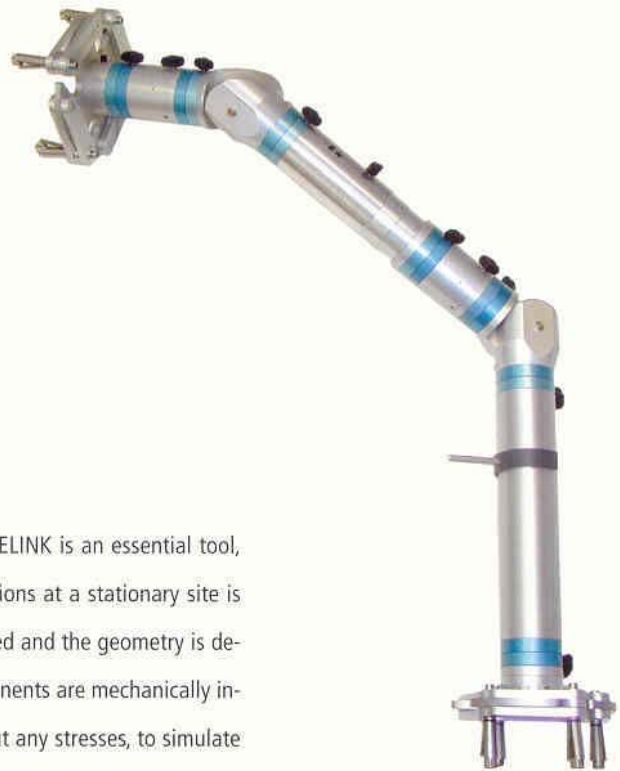




The geometric data of the flange position and shape of the pipe are generated by a sturdy outdoor-PC with the aid of the SCOPEFAB software.

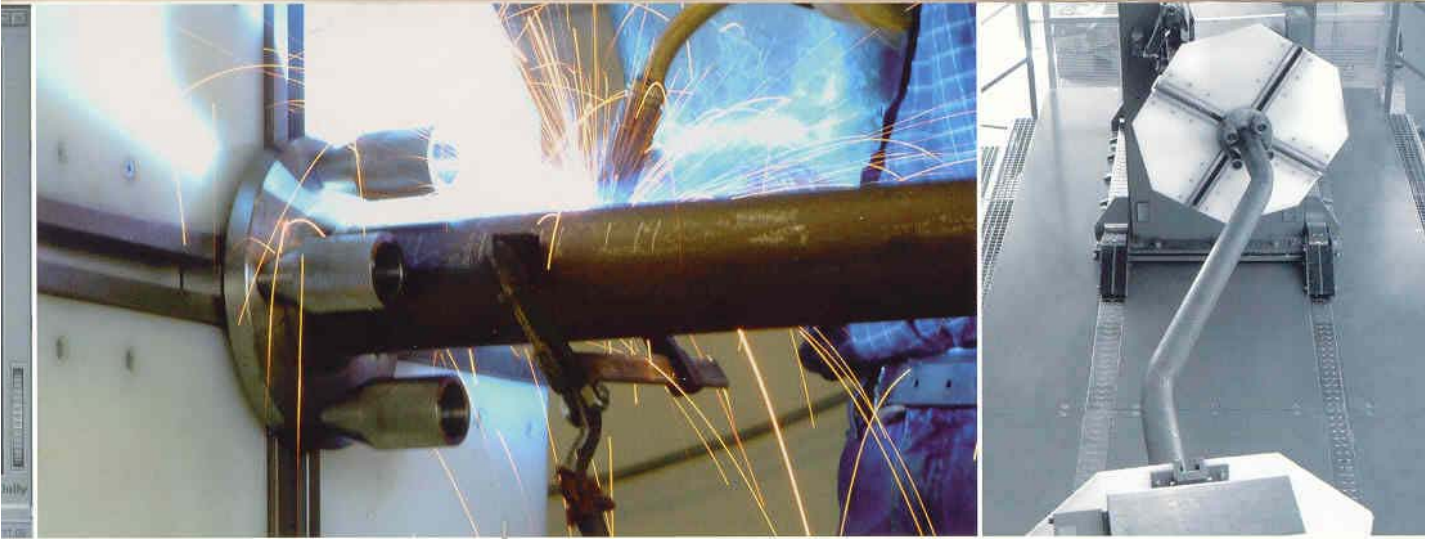


① The computer of the ROBOFIX displays the computed pipe installation. In addition, a control for interference of the pipe with the bending machine can be made to prevent a collision.



The electro mechanical Precision Measuring Device SCOPELINK is an essential tool, wherever the manufacture and assembly of pipe installations at a stationary site is required. Pipe configurations are fast and easily reproduced and the geometry is determined very efficiently. The individual SCOPELINK components are mechanically installed between two fixed points, (i.e. two flanges) without any stresses, to simulate the final pipe course. The coordinates and the computing of the pipe installation are done with an outdoor-PC containing the SCOPELINK software. The mounting positions of all the SCOPELINK components are recognized automatically and the flange locations, including the isometric data of the pipe, can be downloaded in seconds for manufacturing.

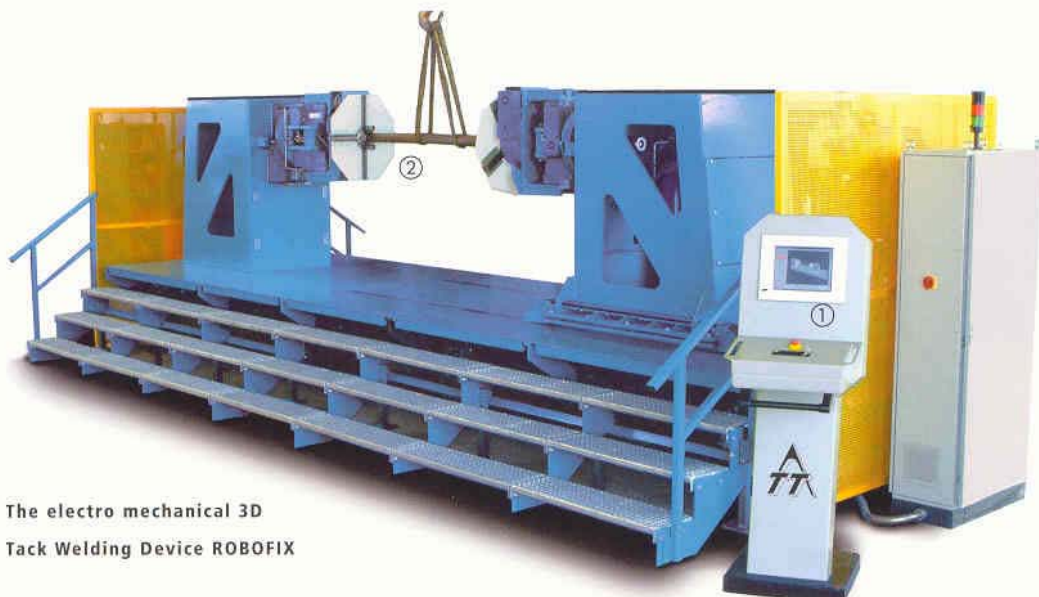
The planned pipe installation is modeled with the SCOPELINK elements and precise measurements are taken.



② The bent pipe is positioned between the precisely aligned 3D-flanges of the ROBOFIX and tack welded to the pipe flanges.

The measurements and the isometric results are converted into manufacturing data via interface by the tube and pipe bending software TRACTOFAB which computes the manufacturing data by considering the material and bending parameters. This data can then be downloaded or manually entered into the bending machine and the pipe, cut to correct length, can be formed.

The electro mechanical 3D Tack Welding Device ROBOFIX is used to check the precise fit and to weld the flange to the finished bent pipe. The two flanges are positioned automatically and precisely in a three dimensional space at their desired location. The dimensional data generated with SCOPELINK is used to exactly align the flanges. The prefabricated bent pipe is positioned and connected to the flanges by tack welding.



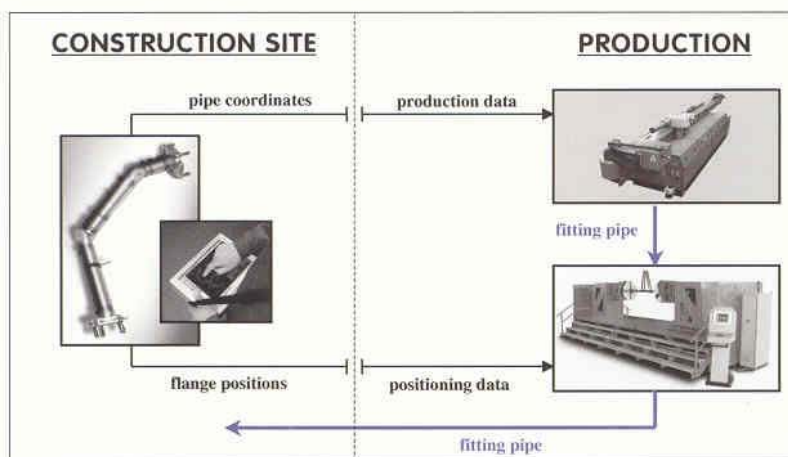
The electro mechanical 3D
Tack Welding Device ROBOFIX



The SCOPELINK generated pipe coordinates are transferred to TRACTOFAB and processed for production on the bending machine.

The combination of SCOPELINK, BENDING MACHINE and ROBOFIX provides the following advantages:

- The time to measure a planned pipe installation can be reduced to less than 10 minutes per pipe.
- Measuring, recording, and documenting of a pipe fitting installation is done on site.
- Using data transfer eliminates the transport of pipe patterns or wire samples from the site to office and shop.
- The interface of the measuring system to the Pipe Bending Software TRACTOFAB allows processing these measuring results into production data.
- The integrated interference control prevents any collision between pipe and bending machine during bending and increases planning and production efficiency.
- Prefabrication and verification of the precise fit are all done in the shop.
- Elimination of errors because of an uninterrupted line of data transfer.
- Noticeable timesavings and reduction of cost for any pipe fitting installation directly at the site, increase the competitiveness in the market place.

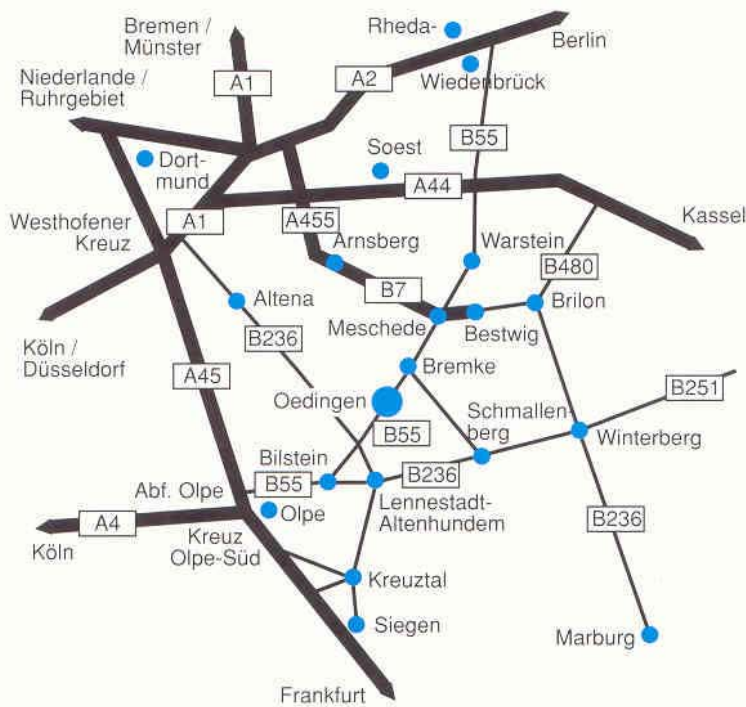


The precise dimension of the pipe installation is taken on site and the manufacture, verification of an exact fit and attaching the flanges are done in the workshop.

Pipe Bending Technology Forum Know-How for Users

The "Pipe Bending Technology Forum" is a great success every year. A large number of participants from different branches of industry are informed in detail about the current developments in tube and pipe bending technology. These events aim to provide know-how and offer the user optimal technical solutions. An extensive and interesting program is offered in theory and practice.

The lectures are supplemented by contributions of competent guest speakers. Please ask for information on our next seminar now.



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*The only choice
for a perfect
pipe installation.*

TRACTO-TECHNIK GmbH

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