

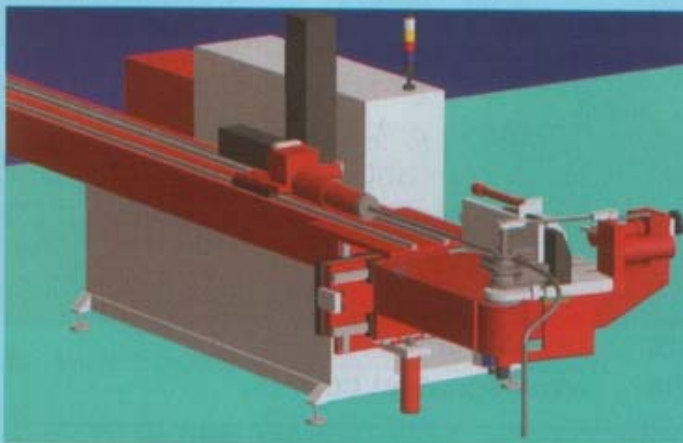
# Bending simulation software

Software from 3R software solutions, Germany, is used extensively in German shipyards such as Blohm + Voss, ThyssenKrupp Marine Systems, the Keppel Group, and Wadan Yards (previously Aker Yards), as well as in the fields of automotive and plant construction, such as Boehringer Ingelheim and Bilfinger-Berger.

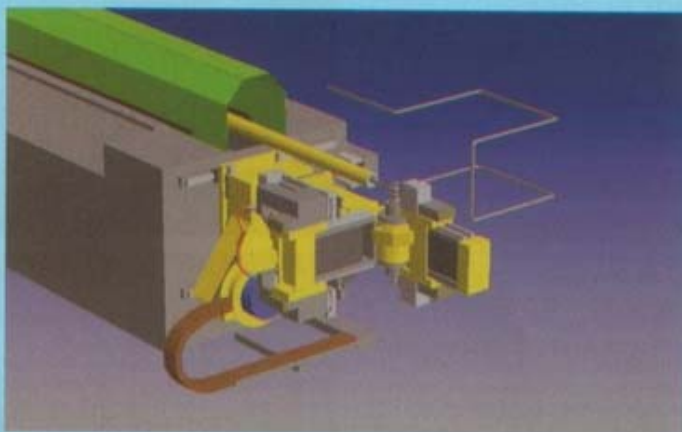
The company's Kolli bending simulation, now in its seventh generation, has become a benchmark for collision testing software, and can be customised to meet most users' demands.

Interfaces are available for most common third party programs, including Tribon™, AutoCAD™, Inventor™, and Unigraphics™, and interfaces to other software can be implemented if necessary.

Rather than requiring a selection from a list of pre-created machine and tool models, which may or may not be appropriate, Kolli 7 includes editor modules for tools, machines and materials.



These allow users to create three-dimensional models of the actual machines and tools used in their pipe shop. Multi-layered tools can be created in minutes, and modifications and extra features of machines can be included when the model of the machine is created.



The material editor makes it possible to take the special properties of different metals into consideration, such as differences in elasticity (springback values).

Isometric display of the tube created by the bending data allows for easy visualisation, and the program independently looks for alternative solutions if a collision occurs during simulation.

▲ 3R's Kolli 7 bending simulation software

In combination with other 3R programs, like the Ramp workshop control system