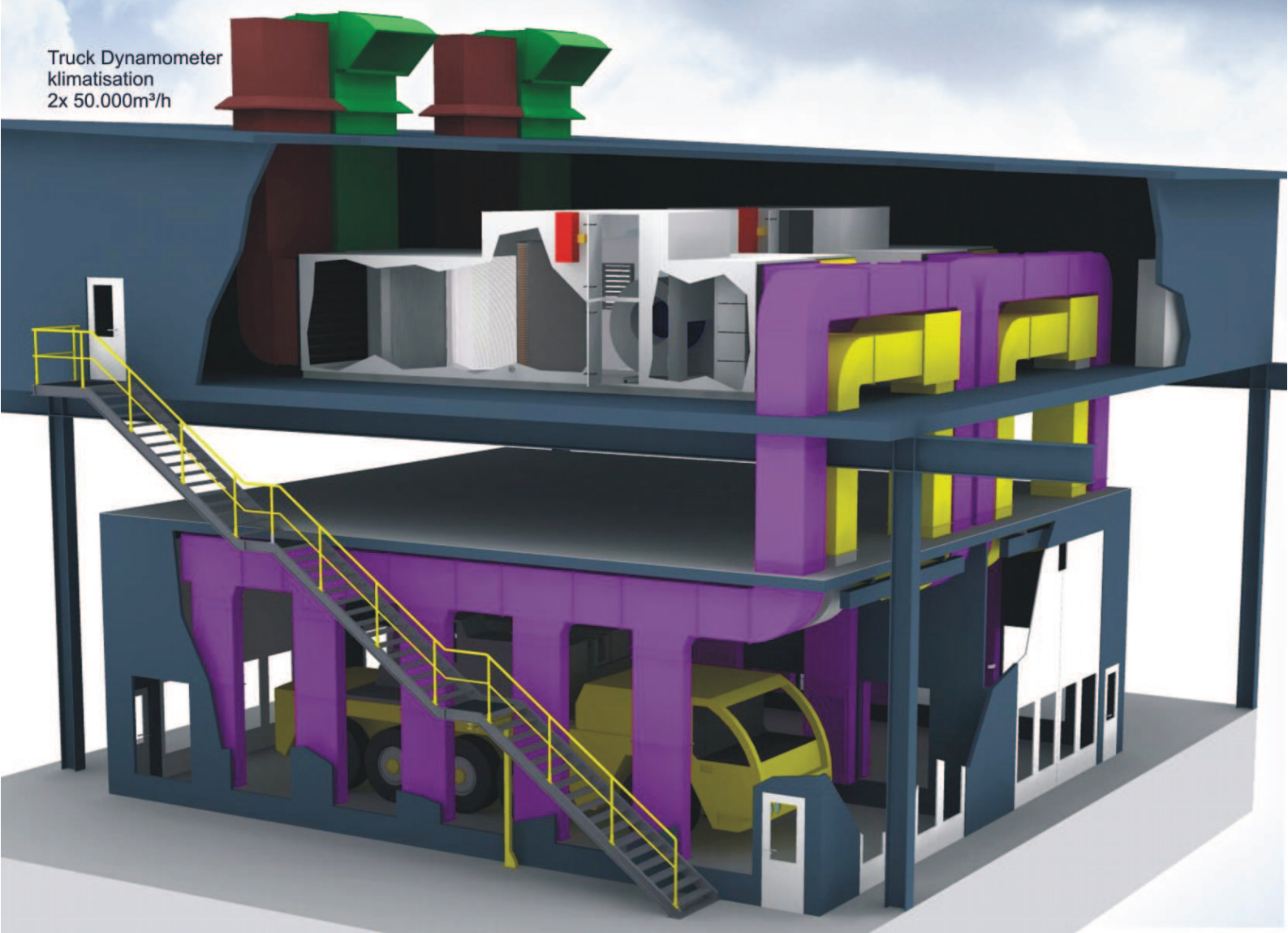




Stahl und Konstruktion

Planning for Plants

Truck Dynamometer
klimatisation
2x 50.000m³/h



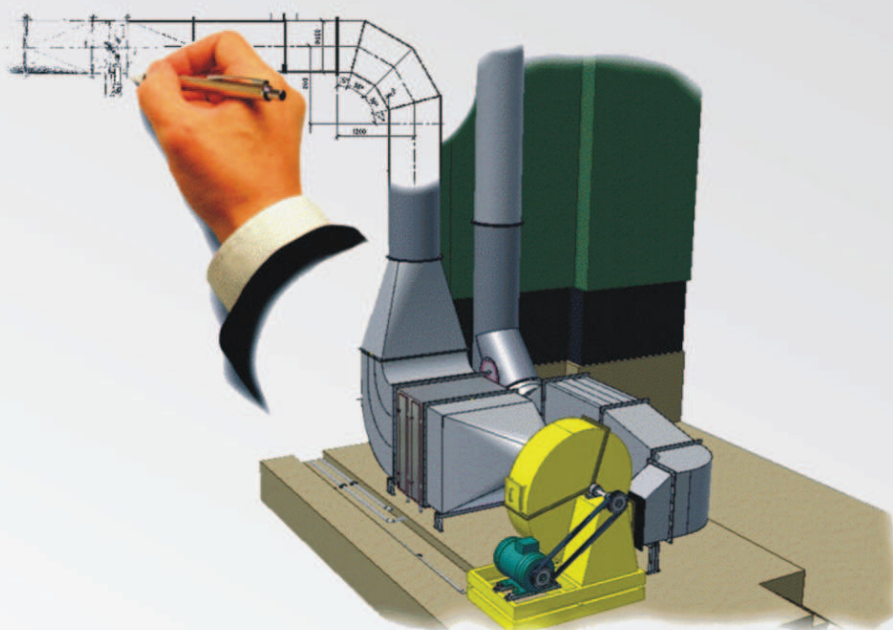
Stahl und Konstruktion

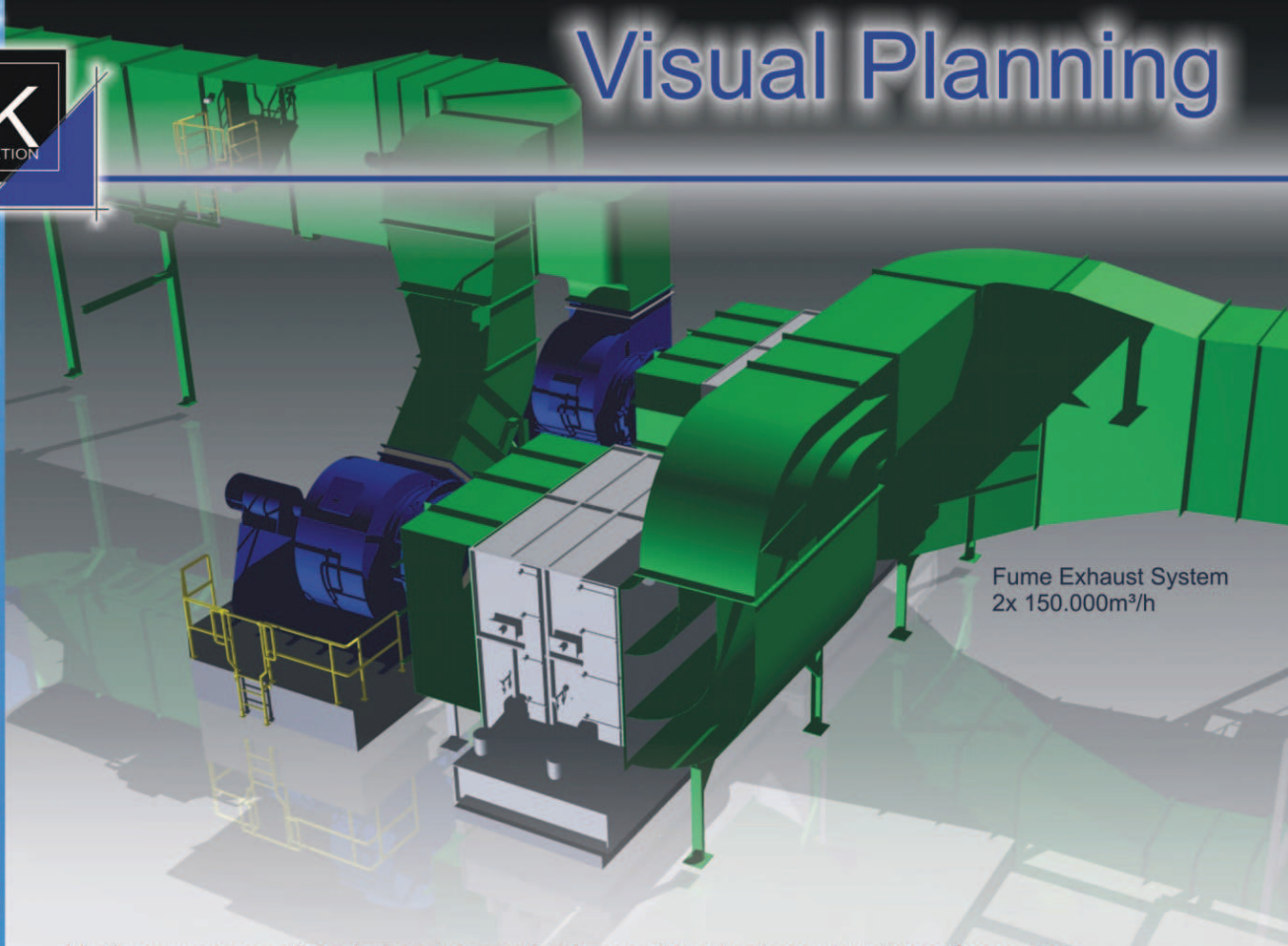
Planning for Plants

Fume Exhaust System for
an Rolling Mill in China
120.000m³/h

Since 2004 the planning office „Stahl und Konstruktion“ has been a family enterprise in the field of air and climate technology.

We work with the Inventor 3D® and all its applications and pass all our planning on to the generally used computer-aided design system AutoCAD®





Fume Exhaust System
2x 150.000m³/h

Until now, conventional planning methods used in plant construction often make it difficult to reveal the very complex systems in a generally understandable manner. It is often difficult even for specialists to understand the interlaced units and plant components shown in conventional views of layouts and cross sections.

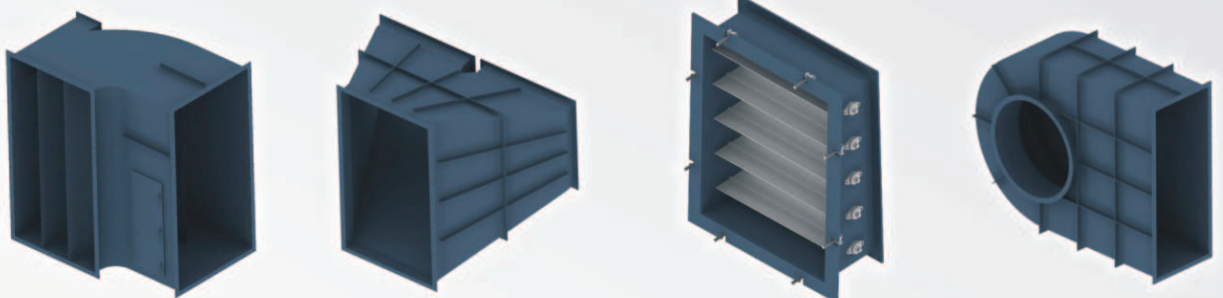
In every big project foundations, buildings, workshop constructions and production plants are linked in a more or less well-arranged manner.

S & K has made it their task to illustrate this "jungle of plants" in a comprehensible way.

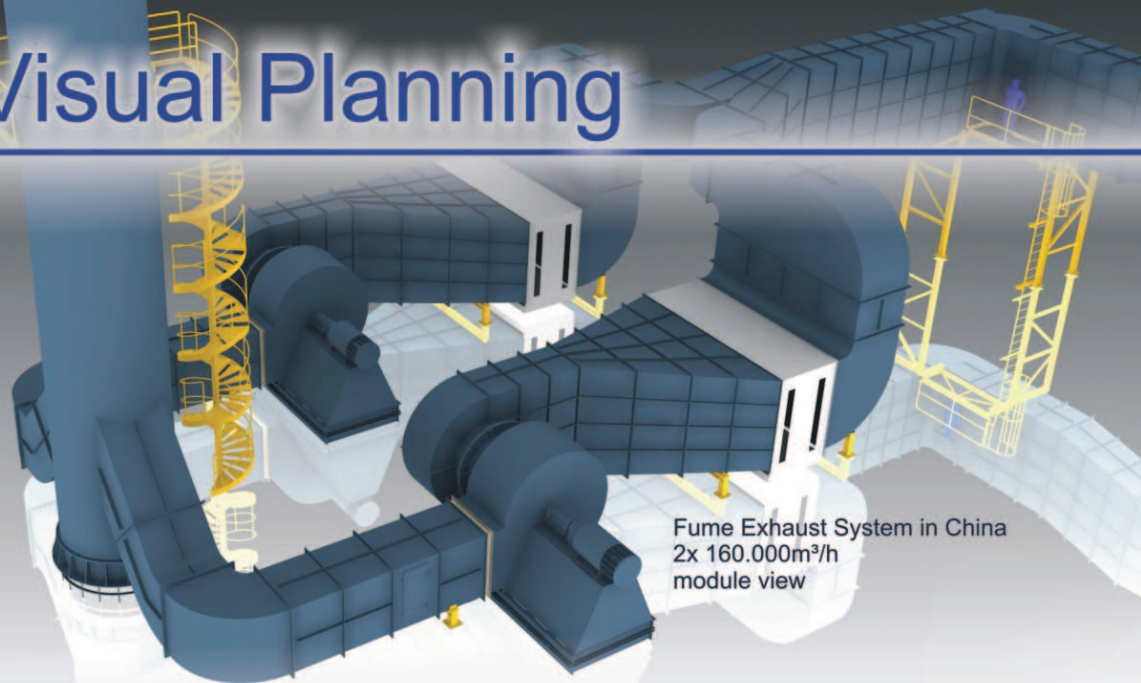
In order to realize this task we employ 3-dimensional illustration modules.

Meanwhile, more and more designers work with 3D programs. However, for reasons of cost efficiency only components of individual units are shown in detail and grouped into structural components.

Despite of the additional costs during the planning phase where the periphery of the plant is shown three-dimensionally we have chosen this way of construction.



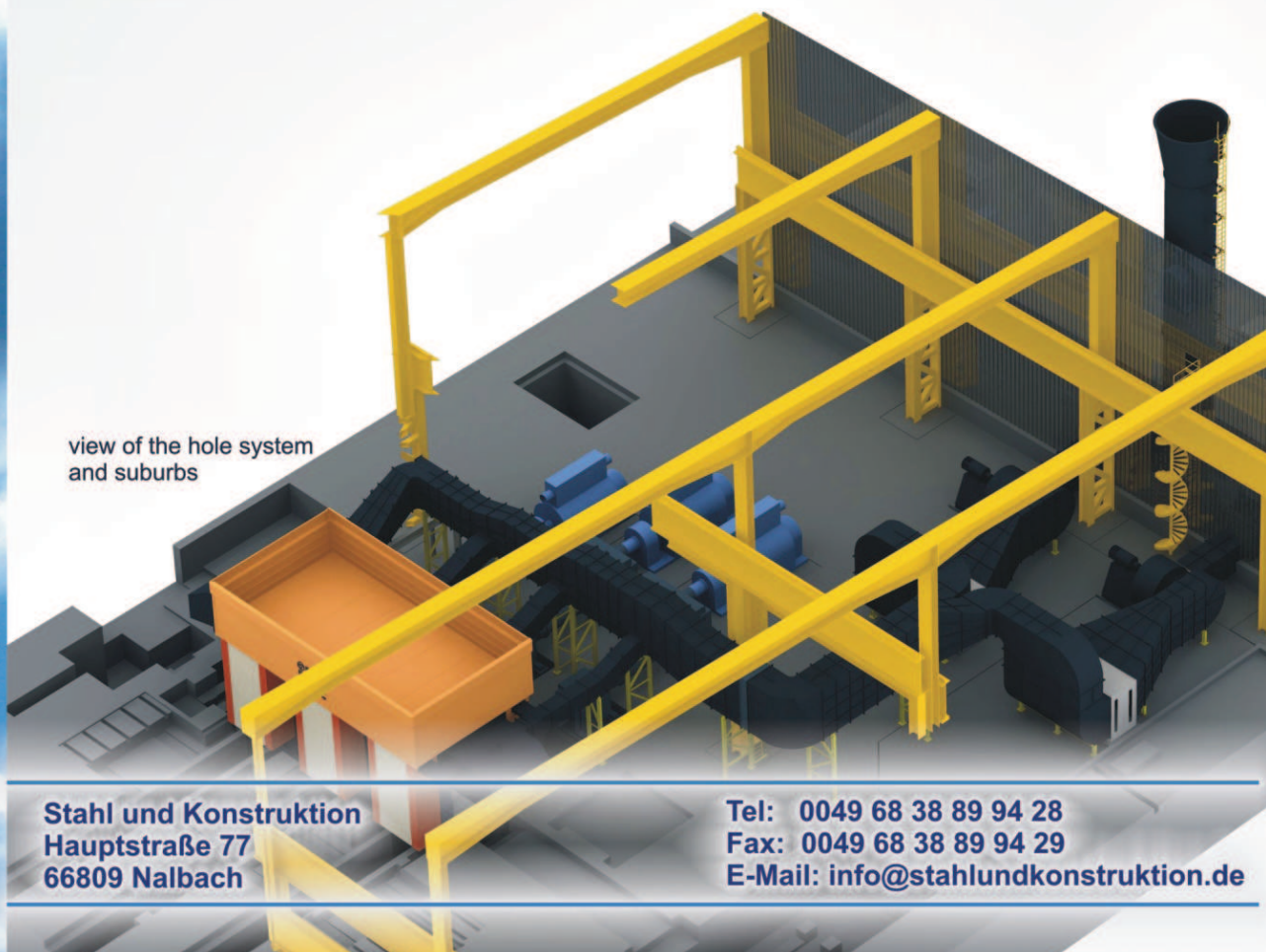
each system can be dismantled into it's detailed single parts



Fume Exhaust System in China
2x 160.000m³/h
module view

Advantages:

- Realistic view of the plant's surroundings
- Better site assessment
- Existing systems are optimally fitted into the total plant
- The plant may easily be fitted into other installations
- Easily understandable illustration for planning and assembly
- Connection of individual components to communicating systems are made clear
- Limits of supply and connecting points between various suppliers are clearly defined
- Realistic visualization give an early impression of the finished object in the planning phase



view of the hole system
and suburbs



5 Stand Coldrolling Mill in Germany
300.000m³/h
photo after assembly finishing

Our illustration method allows to simulate work and movement processes in order to test any operability and access in advance.

Exact workshop drawings are created from shapes and dimensions of the individual plant components in the planning phase. The additional 3D views are easily understandable for each worker and help to avoid manufacturing errors.

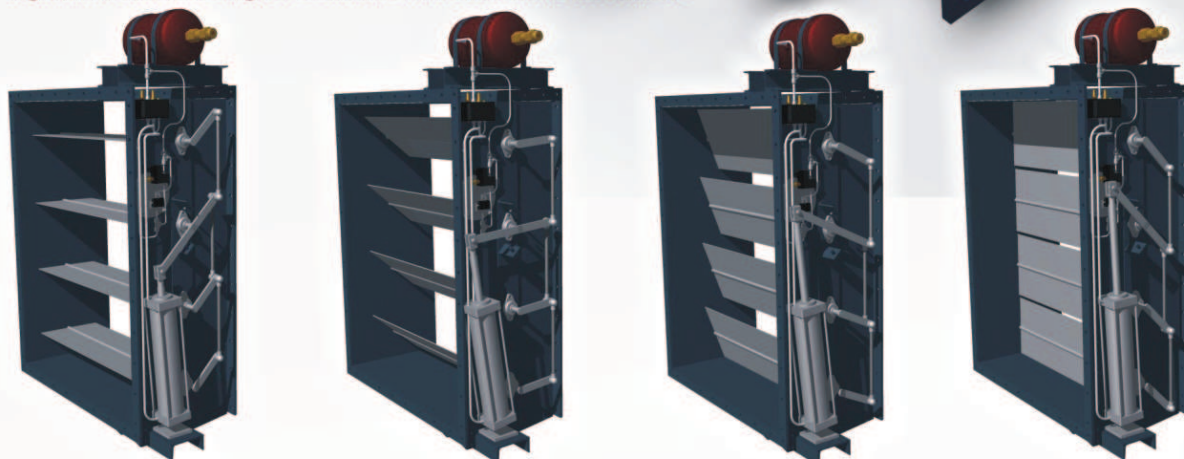
5 Stand Coldrolling Mill in Germany
300.000m³/h
3D planning view

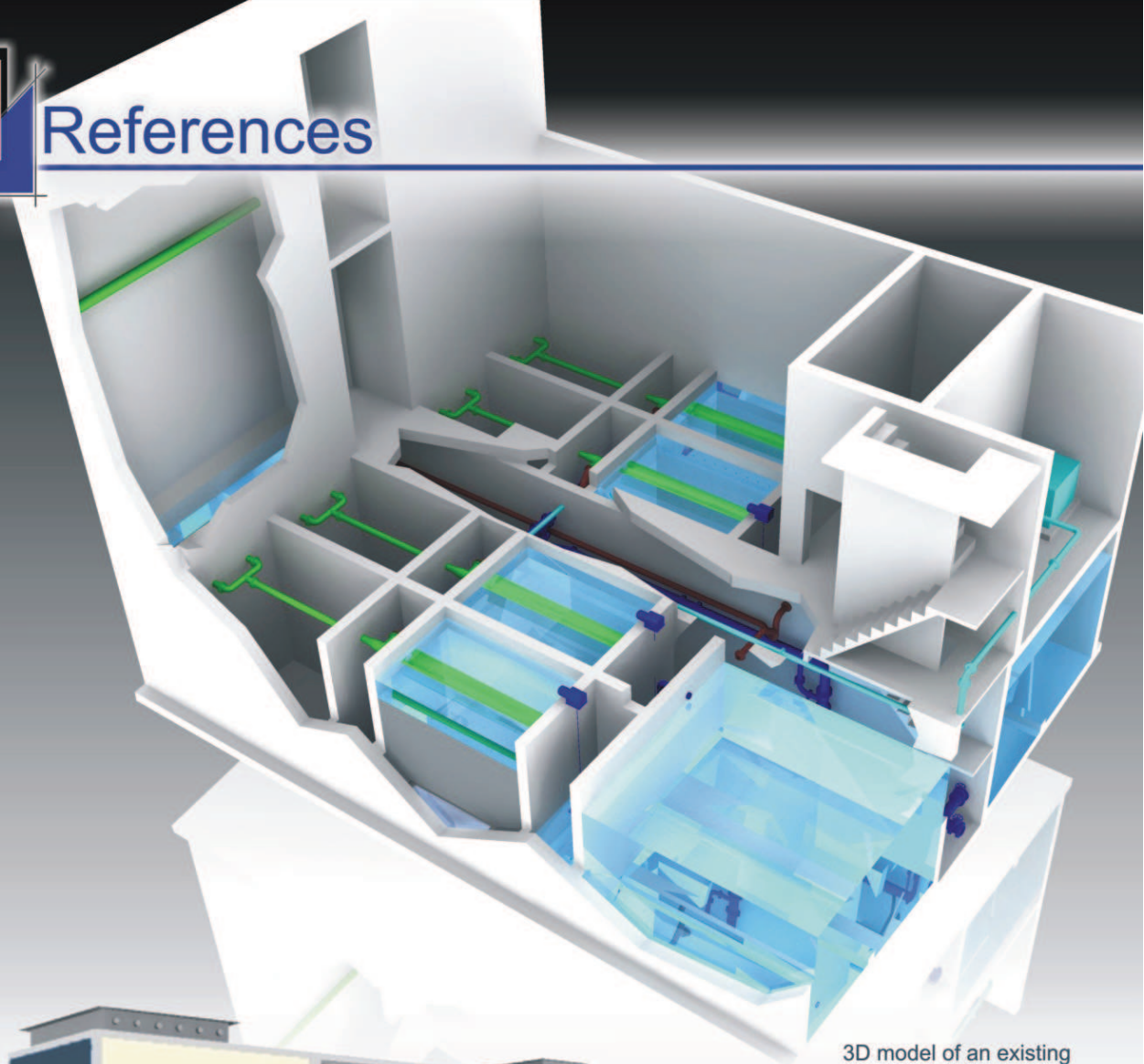


Not only the realistic display of the entire project but also the virtual function and collision tests of the individual plant components in combination with a virtual walk through the production plant offer a decisive advantage to our customers.

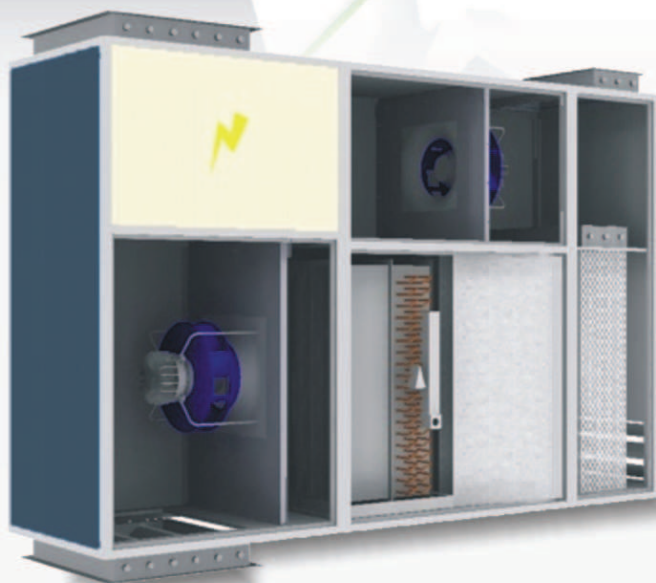


digital functional testing for collisions while mechanic movement





3D model of an existing
Water Treatment Plant



Chilling Machine for an
telecommunication central



Filling funnel of an ore silo

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Fume Sxhaust System for
an Rolling Mill in China
60.000m³/h

