



Design Projects

SOLUTIONS. PROJECTS. EXPERTS.



BRAIN POWER FOR ENGINEERING

Design Projects

For extensive design projects Comatec can offer clearly defined projects with complete service packages. Comatec appoints a project manager for a design project or a jointly defined part of this, who is responsible for bringing together and implementing the services required from different areas of expertise.

Product development projects

Comatec carries out development projects for new products in cooperation with the client, everything from preliminary surveys to the optimal technical solution. The preliminary survey comprises source information for the project, such as the analysis and definition of technical details and form. If required, the service can also include analysing commercial and user data and defining installation and service data.

Comatec's product development service participates in the development renewal of products or product families for a client, and carries out the design work for complex design projects. By using Comatec's product design service the client can raise the efficiency of its product development, reducing overall product development costs and cutting the time to market for a new product.

Comatec's product development service brings together experts in different fields, who form an understanding of the features and contents of a new product or product family and of how to implement it. The initial analyses conducted during the project or the product development phase assist in decision making and in making further plans.

Customisation

Comatec designs modifications to the standard machines or solutions offered by a client, to meet the requirements of the end customer. Customisation may include a wide range of mechanical, electrical and automation design, as well as strength calculations or other expert services.

Localisation

A client's standard product may be modified, for example to make it suitable for another market area. The materials and components used in a product or machine and the level of automation are then designed to meet the technical requirements for that market area. The alterations made to a product may also be required by local legislation and official regulations in different countries.

Detail design

Comatec carries out the detail design and documentation for a product in accordance with the client's source data and requirements. By outsourcing the detail design, a client releases its own key personnel for new design and product development projects and can concentrate on utilising its core competence.

After the assembly, installation, work and production drawings have been produced, the product can move on to resourcing and installation or plant assembly.

During the design phase the client participates in reviews and gives the final approval. If the client so wishes, Comatec will also create the documentation and transfer the product data to the client's PDM system.

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Comatec's personnel are experts and a pleasure to work with.”

Customer satisfaction survey, 2012

Examples of design work:

Mobile Machinery and Special Vehicles:

- Mining and Construction Equipment
- Agricultural Machinery
- Forest Machinery
- Special Vehicles
- Rolling Stock

Material Handling Systems:

- Conveyor Systems
- Cranes
- Load Handling Equipment

Industrial Production Systems:

- Ore preparation and processing
- Crushers
- Packaging machine lines
- Glass processing industry
- Wire-rope machines
- Slitter-winders
- Sheet trains
- Energy production and distribution
- Food industry lines
- Generator systems
- Process automation of oil refining industry
- Fibre optic networks in industrial plants
- Instrumentation at gas stations
- Water mist extinguishing systems

Boilers and Power Plants:

- Basic engineering and design of boilers and power plants and dimensioning of main equipment
- EIC basic engineering and design for power plants
- Power plant layout design
- Material selection and strength calculations for boilers in accordance with pressure equipment standards
- FEM analyses of boiler structures and piping
- Modelling and design of steel structures, pressure vessels and duct systems for boilers
- Modelling and design of boiler and boiler plant piping
- Commissioning and installation supervision services
- EPCM project services

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