

Severn Project Services
Design Paradigm
Design Engineering Solutions

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Severn Project Services provides technology-led design and project aid to major clients worldwide.

Controlling costs and keeping projects on programme are major challenges for all project managers. By working at the design end of the project, we aim to reduce the potential for errors and defects which impact on fabrication and construction. Our service is designed to join the project life cycle at any point, with experience in all major process markets.

Design Paradigm are a design consulting business, who specialise in Mechanical and Pressure equipment design.

Severn Quantapoint provides leading edge laser scanning and 3d laser models to achieve zero defect projects and to provide full digital as built images for your plant for virtual plant operation.

Together Design Paradigm & Severn Quantapoint offer a fully integrated mechanical design development solution.

Severn Glocon Group plc are a leading UK based provider of highly engineered process industry product and engineering led service solutions.

Experience – a new level of performance

Design Paradigm

Experts in design engineering and process analysis

Product & Process Design

Design Paradigm's expertise provides you with an unrivalled level of experience in product & process development through engineering design, analysis, and quality management compliance.



Design Paradigm specialises in design and analysis support for industry with emphasis on compliance to a range of international standards including ASME, API, PED, and ISO. Our focus is to deliver to our clients a high quality, cost-effective solution that adds value to their business quickly and efficiently introducing new levels of performance and profitability.

Rapid product & process development

Improved competitiveness

Improved performance

Reduced cost

Reduced or eliminated test cycle

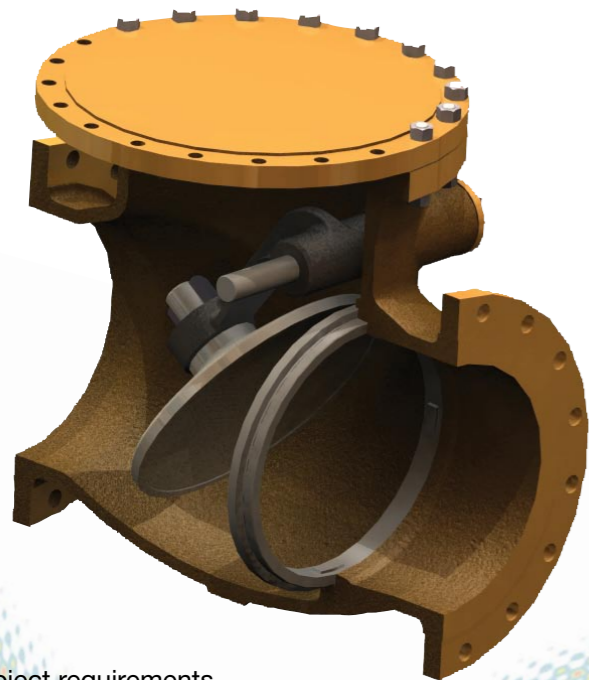
Improved product reliability

Innovative solutions

Additional engineering resource

Evaluation and improvement of existing plant

Compliance advice



Designing for efficiency

Product design, in the form of creating a new product or an improvement to an existing asset, is a complex process. It requires development expertise combined with the correct set of design tools and a comprehensive level of experience both in the application and the applicable standards. Effective design can result in a reduction in operating costs and capital costs, improved operational efficiency, improved safety and operating conditions.

Predictable results

Effective use of simulation software can accurately evaluate the designs performance characteristics to ensure that development is carried out to achieve the lowest cost of ownership alongside the highest levels of performance and safety. Design Paradigm blends communication, experience, knowledge, and skill to provide added value for our clients. A unique combination of advanced analysis and extensive product development experience in the field of pressure vessels allows our engineers to maximise the benefits of Computational Fluid Dynamics, Finite Element Analysis, and Parametric design. Where required we can also customise client software to encompass Quality Management and Design Verification procedures.

Our structured approach, combined with a proven capability to identify and solve the right problems produces results.

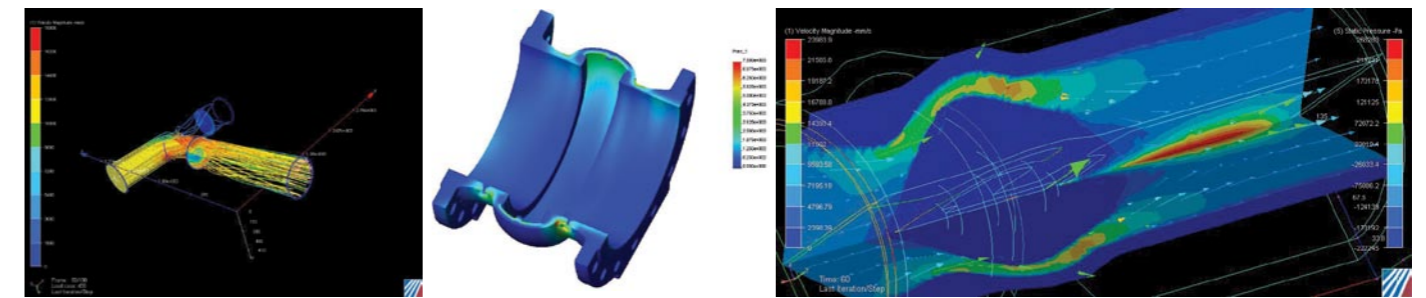
Experience, expertise, enthusiasm

A primary asset that brings value to the projects we develop is experience - our engineers understand your industry and the constraints under which you operate, which mean that we are not only seeking a technical solution, but one that works within your operational model. From our perspective, it's the solution that counts, not the technology that it's based on. We are enthusiastic: we put energy and effort into meeting the design brief when you need it.

Our services are geared to maximising the benefits of your business operation whether we are designing a new marketable product, improving existing assets, developing replacements or enhancing and evolving an existing process.

The main areas of focus include:-

- Product design and development
- Process evaluation
- Standards compliance and quality management
- Device Management
- Condition Management
- Predictive Maintenance Programs



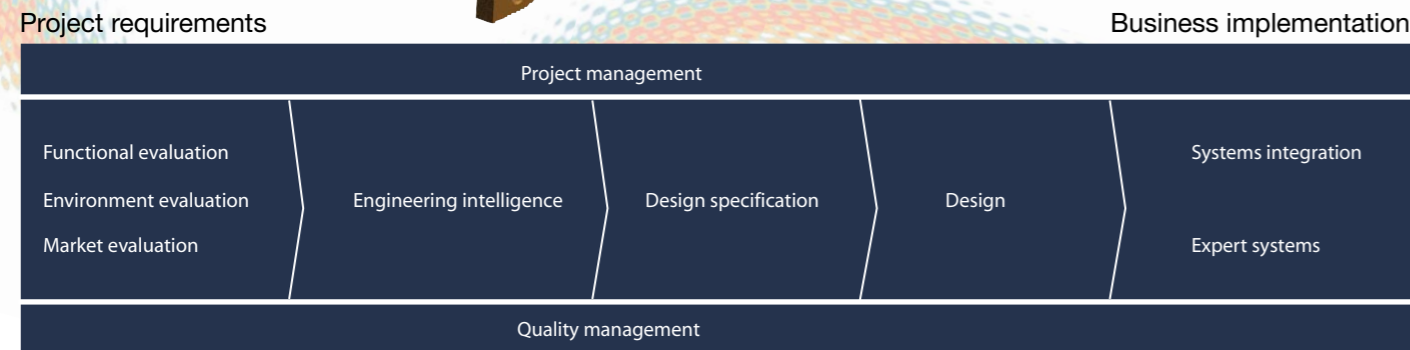
Product to complete process

We undertake projects ranging from simple evaluations of existing components and processes to the design and analysis of complete systems. In all cases we aim to deliver solutions that meet or exceed client expectations whilst delivering a commercially viable solution.

Our team of world-class engineers come from a variety of industries, onshore and offshore, combining a high level of practical experience of production techniques and methodologies with keen analytical skills and production flow understanding. Familiarity and expertise with the latest analysis software enables efficient evaluation and identification of process issues and potential improvements.

We are fully conversant with the design codes stated below.

- ASME II, III, VIII
- ASME B16.5
- ASME B16.10
- ASME B16.25
- ASME B16.34
- ASME B31.1
- BS5500
- DIN 3840
- API 6A
- API 6D
- PED 97/23/EC
- ATEX 94/9/EC



Product & process design	
Features	Comprehensive knowledge of pressure vessel and valve design, application and operation. Experience in a range of industries.
Advantages	Budget control. Rapid product development. Product innovation. Improved product reliability. Products designed to suit company standards. Reduced or eliminated test cycle. Right first time design process. Product or process designed to match application and conditions. Will meet appropriate standards.
Benefits	Improved competitiveness. Improved performance. Improved profitability. Reduced cost.