

PROSOLVE MECHANICAL ENGINEERING SERVICES

Using quality management principles coupled with professional knowledge and experience, ProSolve offers Mechanical Engineering services that satisfy your needs and meet safety regulations.

Our Mechanical Engineers design new products, improve existing products, develop and enhance product specifications, write and review approval packages, and prepare submissions for regulatory approval.

ProSolve optimizes the product development process, enhances cost effectiveness and minimizes risk.

DESIGN AND ENGINEERING

ProSolve provides custom engineered designs and drawings for:

- Pressure equipment
- Lifting devices
- Metal structures and frames

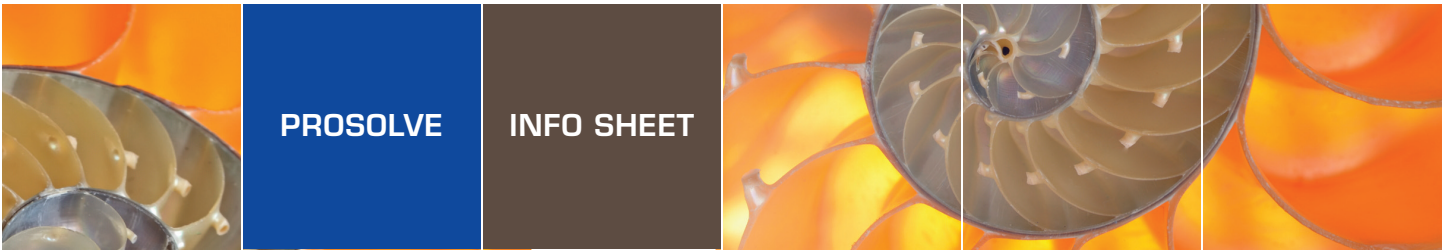
DRAFTING AND 3D MODELING

ProSolve visualizes, illustrates and validates your designs before production begins. We create flat-layouts for forming and export the designs to formats compatible with CNC machinery.

BILLS OF MATERIAL

ProSolve takes your designs and generates detailed bills of material. When the time comes to generate shop drawings, drafting time and costs are reduced as the required information is already in the system. Purchases are simplified.

IMPLEMENT SOLUTIONS. MINIMIZE RISK. ENHANCE PRODUCTIVITY.



CONCEPTUAL DESIGNS

ProSolve evaluates alternative designs and develops solutions to design problems by filtering out poor features before detailed design and engineering are complete. We explore different configurations, examine and analyze different geometries and materials, and investigate options early in the design cycle. ProSolve’s process saves you money.

VIRTUAL PROTOTYPES

Early in the development process and at a fraction of the cost of physical prototypes, ProSolve tests real-world product performance using virtual prototyping. We identify and provide the opportunity to correct performance problems early, and deliver fewer, but better, prototypes.

FINITE ELEMENT ANALYSIS (FEA)

Through modeling and simulation of real-world conditions, FEA helps lower the risk of product failure without the expense of physical prototypes.

Evaluating alternative designs:

- Lowers risk of product failure;
- Reduces schedules for development by avoiding multiple prototypes;
- Confirms and validates product performance early in development;
- Optimizes the cost and or weight with highly efficient designs.

TRANSPORTATION OF DANGEROUS GOODS (TDG)

ProSolve’s registered design engineers provide a wide range of services to the TDG industry. From minor design modifications to complete new tanker truck or trailer designs and facility registration, ProSolve delivers results.

For more information on ProSolve’s TDG Engineering services, please see **TDG Engineering by ProSolve**.

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