PLATINUM
GLOBAL SOURCING

ENGINEERING DESIGN & RE-DESIGN

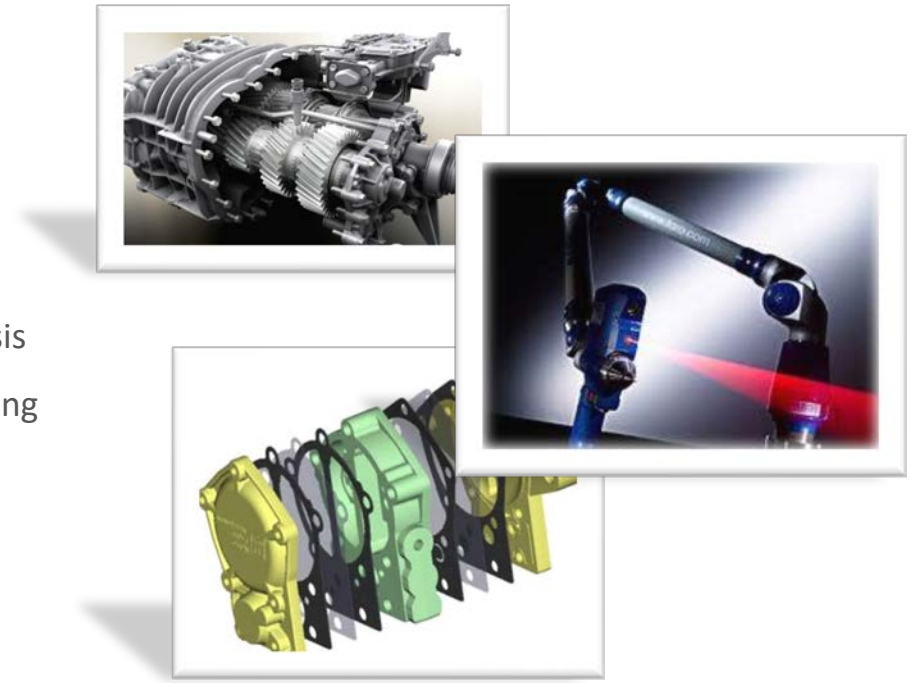
INNOVATIVELY CUTTING PRODUCT COSTS

2018

ENGINEERING & DESIGN SOLUTIONS

Platinum Global Sourcing has a Strategic relationship with a Global Engineering & Design Team to offer a full range of services proven to improve operational efficiencies and reduce costs.

- Frugal Engineering Expertise
- Product Design
- Computer Aided Engineering (CAE)
- Advanced 3D Solid Modeling
- Packaging Design & Feasibility Analysis
- Part Breakup and Assembly Sequencing
- Reverse Engineering
- Durability and Fatigue Analysis



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FRUGAL ENGINEERING EXPERIENCE & EXPERTISE

Reducing The Complexity And Cost Of A Product For Production

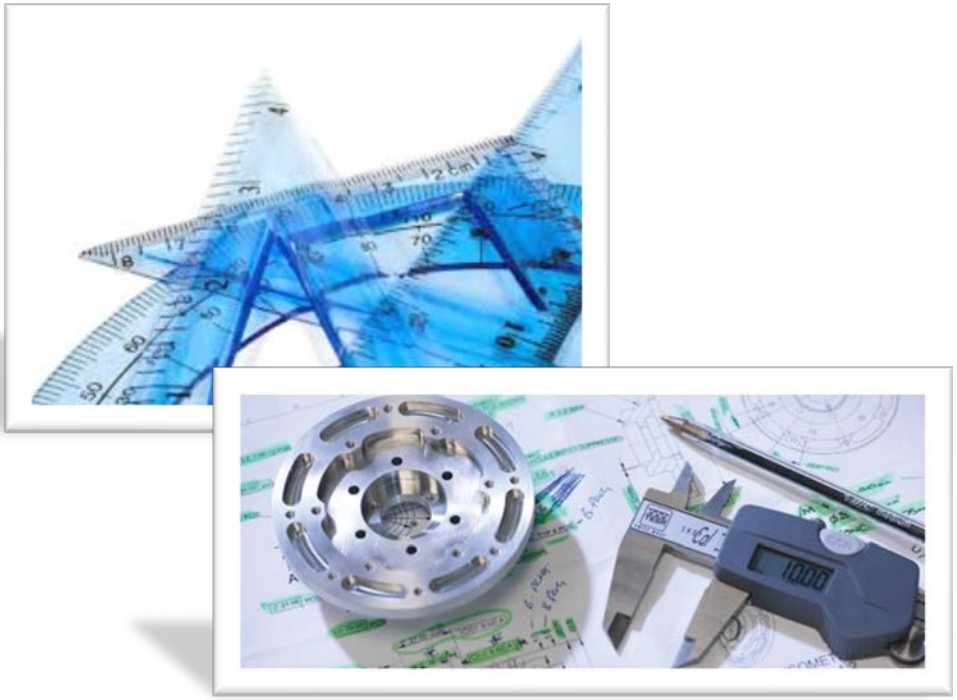
Rather than simply cutting existing costs, frugal engineering seeks to avoid needless costs in the first place.

Reduce Costs And Improve Margins

FRUGAL ENGINEERING SERVICES

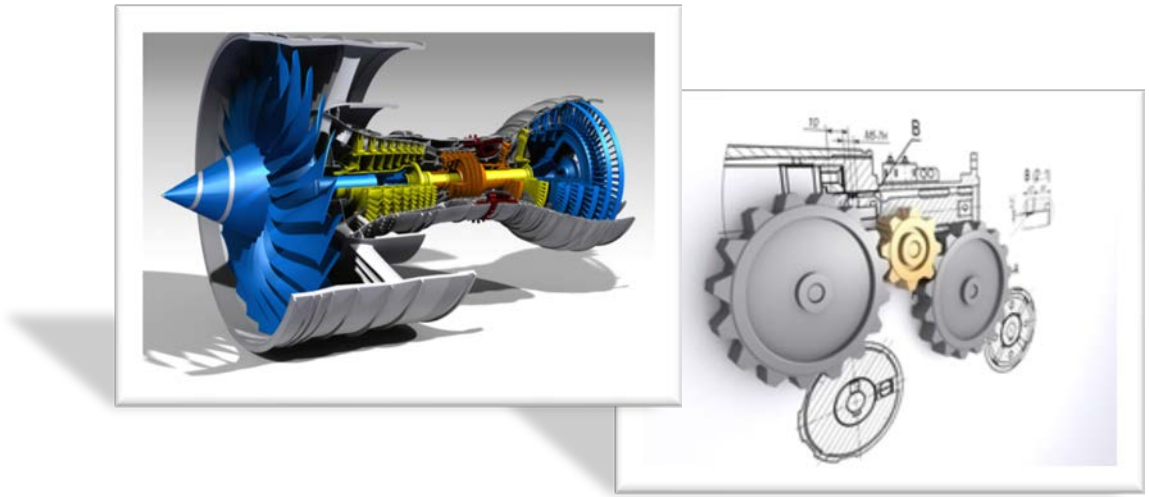
Our Strategic Global Design Partners offer a full range of design services that can accelerate your development process. Product engineers consider manufacturability, cost optimization, weight optimization, quality, and performance. Arriving at the best overall optimal design, making the right considerations and not sacrificing critical attributes like durability or safety.

- Concept Redesign
- Material Substitution
- Process Conversion
- Weight Reduction
- Space Optimization
- Assembly Process Re-design
- Parts Standardization
- Parts Integration/Reduction
- CAE / FLDA Led Design Optimization



COMPUTER AIDED ENGINEERING (CAE)

Computer Aided Engineering (CAE) is one of the most powerful virtual product design development tools available for predicting and optimizing the behavior of components and complete systems for operational use.



Reduced Product Development Cost And Time, With Improved Product Quality And Durability.

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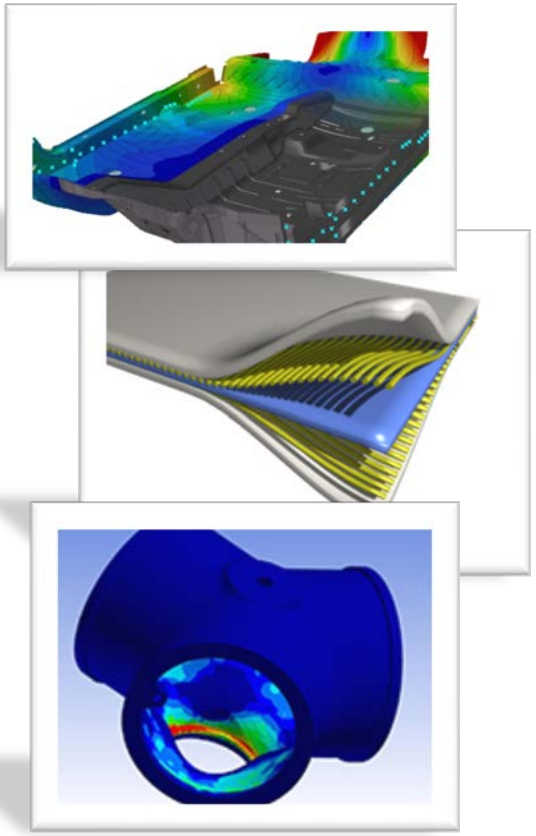
COMPUTER AIDED ENGINEERING

ANALYTICALLY DRIVEN DESIGN OPTIMIZATION SOLUTIONS

Linear and Non-Linear Statics Analysis - Used for design and verification of products using a variety of structural and thermal loads.

Frequency and Buckling Analysis - Evaluate natural frequencies or critical buckling loads and recommend design changes to improve product performance.

Durability and Fatigue Analysis - Computer simulations determine how well parts will hold up during cyclic loading. Results are important in calculating and verifying safe part lifetimes.

Mold Flow Analysis - A plastics flow simulation that allow our clients to determine the manufacturability of their part in the early design stages and avoid potential downstream problems which can lead to production delays and costly overruns.

Metal Forming Analysis - A virtual simulation of the process by complete simulation of press action in a stamping operation to form sheet metal parts. The analysis provides visual design verification in the virtual world without need for expensive and time consuming prototyping.