

SHEFFIELD
FORGEMASTERS

**Casting and Forging
Solutions for the
World's most
Complex Engineering
Challenges**



Preliminary Design Capabilities



Preliminary Design Capabilities

Our experienced teams at Sheffield Forgemasters use preliminary design software and hardware tools for steel melting, casting and forging prediction and analysis.

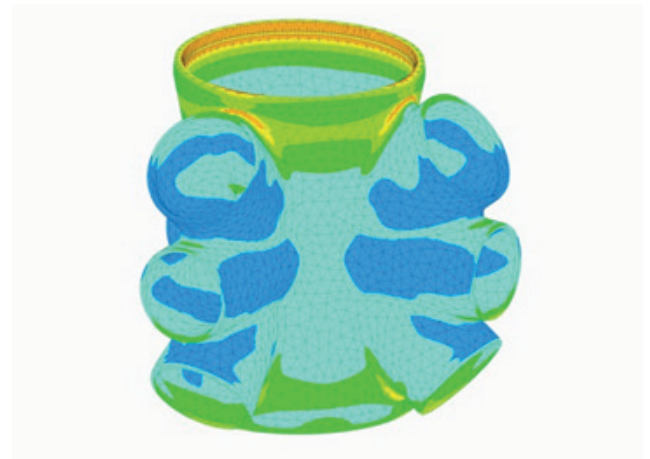
Preliminary design services can reduce the risks and costs involved in various steps of a steel making process, converting heavily stressed and safety critical fabricated components into an optimal cast or forged steel solution.

Key Capabilities

- Design for manufacture
- Residual stress prediction
- Forging & shaping simulation
- Liquid metal flow simulation
- Segregation prediction modelling
- Fabrication & welding simulation
- Structural stress modelling
- Heat treatment & cooling simulation
- Mechanical properties prediction
- 3D CAD modelling
- 3D Printing
- Ingot mould design



Design Enhancement and Modifications



Advanced Simulation Techniques

Applications

Defence | Civil Nuclear | Offshore | Steel Processing | Renewables | Power Generation | High Pressure Reactors | Steel Plant | Ingot & Bar

E: sales@sfel.com

T: + 44 (0)114 244 9071

WEBSITE: www.sheffieldforgemasters.com



Brightside Lane, Sheffield, S9 2RW

