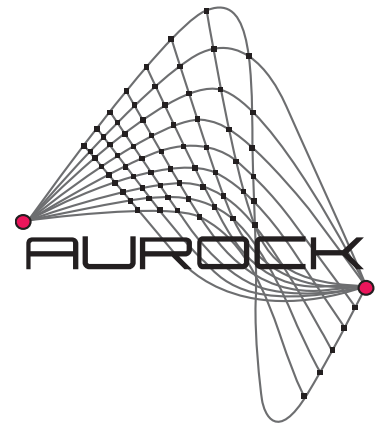
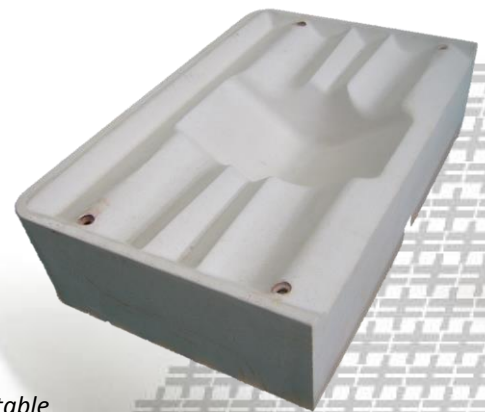


Titanium Superplastic Forming



*A fully integrated solution:
FEM simulation, tooling and SPF forming*



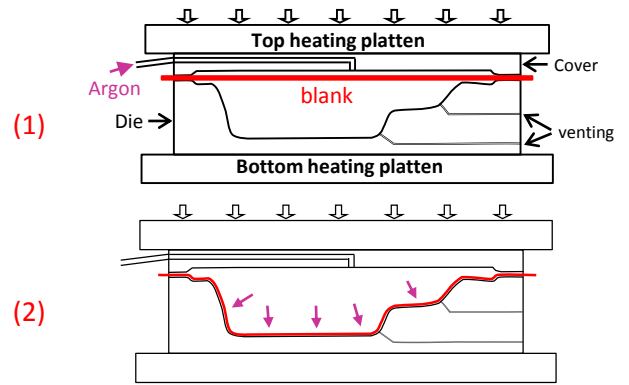
*A refractory castable
tools reinforced by
metallic fibers*

Based on its experience in tools manufacturing and Super Plastic Forming computation (SPF), Aurock is able to produce parts by its SPF process.

Henceforth, Aurock can be your dedicated interlocutor from the part design to the final manufacturing step including the FEA simulations and the tool manufacturing.

➤ Super Plastic Forming process

- (1) The metal sheet is heated up uniformly
- (2) The gas pressure forces the sheet against the tool surface



➤ Advantages

- Large strain before striction → Ensure the forming of complex geometries
- No spring back phenomena → Near net shape components

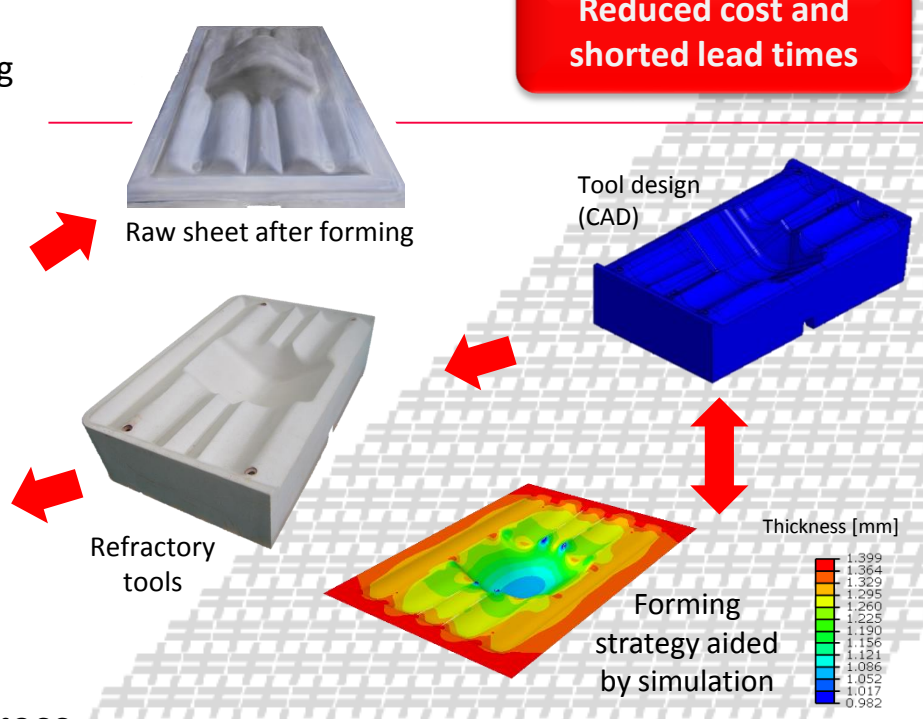
➤ Fully integrated package

- Tool design
- SPF process simulation
- Refractory tools manufacturing
- SPF part manufacturing



Relevant for prototyping and feasibility tests

Reduced cost and shorted lead times



➤ Characteristics of the press

Max. Compression Capacity	400 tons
Vertical Opening	800 mm
Crosshead travel	600 mm
Platten size	1400 x 1000 mm ²
Max temperature	1050 °C

➤ Certification agreements

- ISO 9001 (2014)
- EN9100: in progress



Think differently!

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