

## Stack molding process

An integrated manufacturing solution

High casting capabilities to support customers' series production projects in Nuclear, Hydraulic or Wind Power, with the most stringent material quality & standards

### Challenge

Find a solution for the manufacturing of multiple complex shape components with an integrated solution from design to series production.

### Solution

Framatome has high industrial one-stop-shop capabilities and competencies in casting with a fully integrated manufacturing solution :

- High quality secondary metallurgy is provided on-site by INDUSTRIEL with full choice over 600 material grades :
  - Non-alloy ferritic steel (carbon steel)
  - Austeno-ferritic stainless steel (Nickel-chromium steel)
- 3D stack molding process and heat treatment simulations :
  - to design & manufacture moulds
  - to define sand chemistry
  - to predict thermal and mechanical behaviours
- Dedicated qualified operators managing all manufacturing sequences
- Quality & conformity control performed on site
- Post casting operations such as welding, machining, assembly

Our foundry is compliant with international codes & regulations :

- ISO 9001 / 19443 / 17025
- PED / ESPN
- ASME / RCCM

### Customer benefits

- European & sovereign solution with proven experience
- Integrated solution fully adapted to series production projects from metallurgy to controlled finished components
- Safety & Quality conformity

### Watch the video on

<https://www.linkedin.com/feed/update/urn:li:activity:7160979693611962368/>

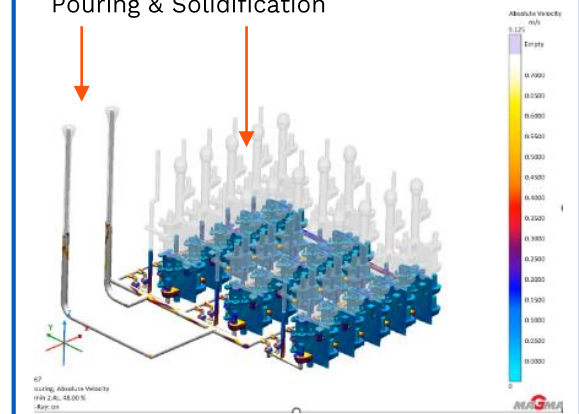
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is our everyday commitment**



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### Technical informations

3D Stack molding process simulation :  
Pouring & Solidification



### Key figures

Finished products **from 1t to 140t**  
Pouring ladles ranging through to **90t**  
Multi ladle pouring systems  
**(3 max, from 20t to 270t)**

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