

Sim-Cast

Delivering casting solutions



Single Crystal Investment Casting can be an expensive unpredictable process, but by using Sim-Cast's 'Virtual Foundry', freckles, porosity and secondary grains can be a thing of the past!

Virtual Foundry

Sim-Cast's 'Virtual Foundry' has the capability and flexibility to identify, understand and solve a broad range of thermal and mechanical investment casting problems, such as freckles and re-crystallisation.

Sim-Cast was formed in 2007 by Ben Anderson and Amarjit Mahal, with the aim of providing sustainable solutions to the Investment casting industry. Sim-Cast specialise in computer

simulation and operational performance, of Single Crystal and Directionally Solidified investment casting manufacture.

Service Solutions

Sim-Cast have introduced a range of service solutions that look to address a products typical manufacturing lifecycle needs. These range from, working with the foundry to understand true manufacturing capability, through to the development of a new product.

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- Introduction to Sim-Cast
- Sim-Cast processes
- Sim-Cast solutions

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- **Process Basics.**

Establish the product basics, to understand and control the process. Understanding location and frequency of defects such as freckle chains, secondary grains and porosity

- **Process Control.**

True process capability is achieved through maintained control. Optimisation of controls for sustainable Incremental improvements

- **Continuous Improvement.**

Maintain control and continue optimisation, through the elimination of waste

- **New Product Introduction.**

Learning carried over from similar products. Controls and waste identified, maintained and optimised.

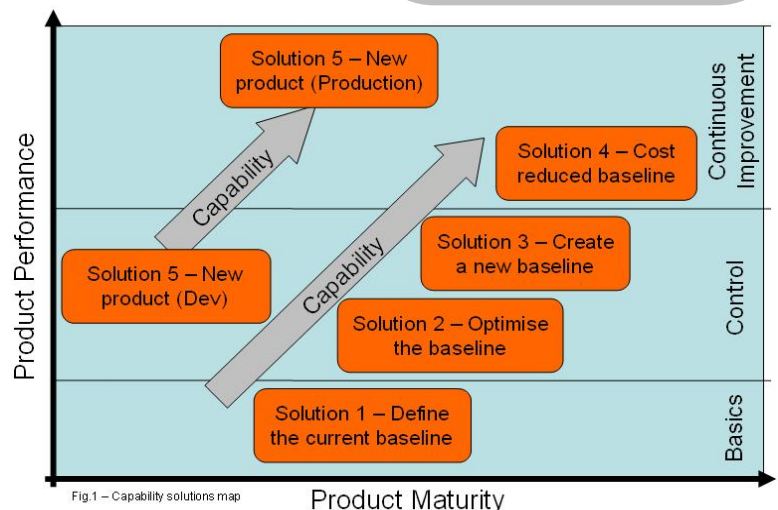


Fig.1 - Capability solutions map

