

Delivering casting solutions

Here today, gone tomorrow ! As metal prices rise, Sim-Cast are helping customers eliminate waste by increasing their metal utilisation as well as increasing their yields!



Reducing costs

Demand for metals is booming, which has led to a significant rise in metal prices over the past 4 years. With the price of metals such as Nickel rising 36% and Ruthenium rising over 500% in the last 12 months, the focus for cost effective manufacture needs to consider yield improvement and material utilisation.

Sim-Cast Solutions

Sim-Cast's 'Virtual Foundry' plays a key role in helping its customers save money! Sim-Cast offer a range of solutions that meet the needs

of new and existing designs, which need to consider the implications of cost through optimisation of material utilisation and yield.

'Cost reduction' Solution

Sim-Cast's solutions that address existing designs, involve the improvement of all manufacturing aspects in association with the foundry. Not only is the yield improved, but also extensive studies of metal utilisation are considered, resulting in the delivery of a cost optimised solution.

This issue – April 07

- Reducing costs
- Sim-Cast solutions
- Rising metal prices

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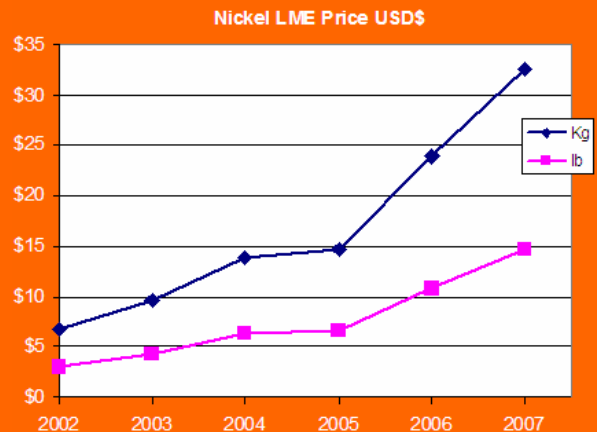
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Previous Issues

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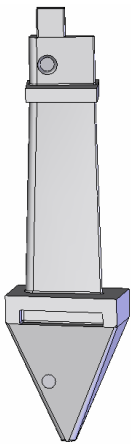
Rising metal prices

Nickel prices have more than doubled in the past 2 years and will remain under pressure this year. However, booming demand from China, is expected to cause consumption to exceed production of nickel in 2007 for the second consecutive year.

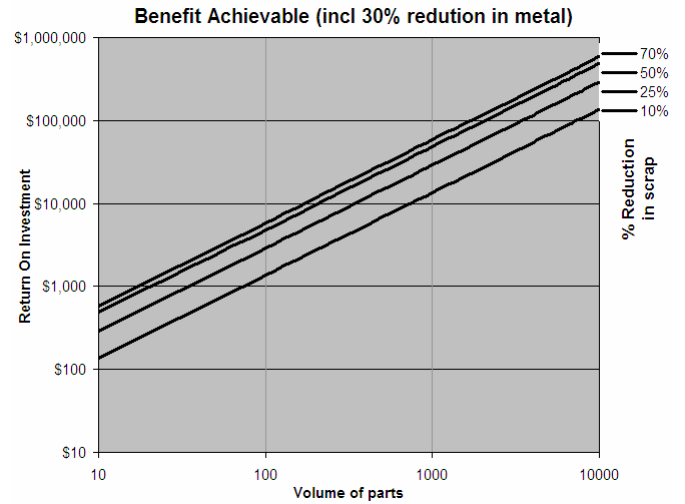


Why Sim-Cast

Sim-Cast's example of nearer to net size casting below highlights the level of benefits that are achievable, when using their solutions. As in this case, Sim-Cast can help transform your foundry through the delivery of robust improvements, resulting in significant return on investment.



40% reduction in Scrap
 +
 30% reduction in waste metal
 +
 10% reduction in casting time
 =
 Increased Capacity
 +
 Increased Capability
 =
 25% Cost improvement



Before

After

Business benefits

Sim-Cast's experience and capabilities offer unique opportunities to achieve exceptional performance, and are helping their customers meet increasingly demanding improvement goals and targets.

Sim-Cast focus on solutions for today's problems and deliver;

- Increased business capability
- Increased knowledge and understanding of the process
- Improved new product development process and time to market
- Centralised and standardised processes
- Improved ability to handle capacity fluctuations
- Reduced labour costs

HABS

[Ref: Spowart & Mullis, 2003]

Freckle chains

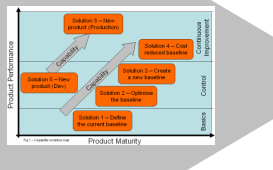
[Ref: Beckermann C, 2000]

Recrystallization

[Ref: Burgel et al, 2000]

Metal Costs

[Ref: LME Nickel Prices 2002-2006]



Identifying today's problems

Providing today's solutions