



AUSTRALIAN FOUNDRY INSTITUTE
Victorian Division Inc.
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AFI (Vic) August 2022 Presentation Webinar:

Quicksand Pty. Ltd. – 3D Sand cores and Moulds

Save your foundry time and money by 3D printing sand cores and moulds for both prototype **AND** production castings

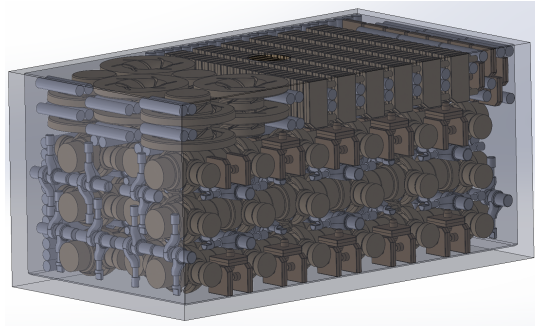
Quicksand Pty Ltd is the new home of the Voxejet Sand 3D Printer. A new company founded specifically to continue supplying sand printed moulds, cores, CAD services and advice to Australian foundries. Backed by the technology's most experienced and frequent users of sand printing in Australia, Hasco Foundry Pty Ltd and Race Cast Engineering.

Gary Savage and CSIRO have done a great job introducing this technology to our industry. You are probably familiar with the machine and may have even dabbled your toes. This presentation will take your interest a step further and show you how to best take advantage of the process to ultimately save your foundry or pattern shop time and money. **Yes, even on production and volume orders.**

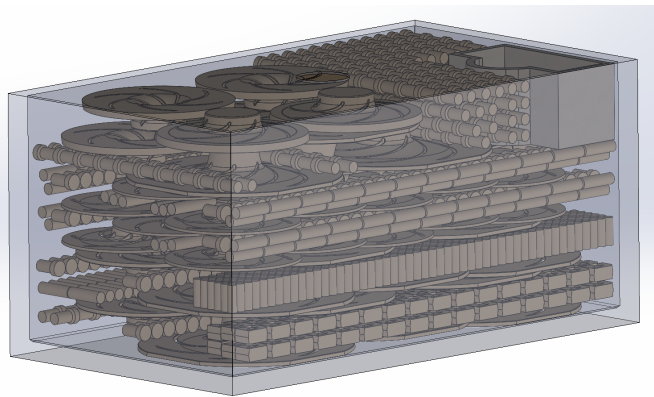
Some topics discussed during this presentation;

- Advantages of 3D printed cores and moulds
- The build volume and how to fully exploit it
- Localised strengthening of fragile core regions with minimum gas
- Simple, safe freight by printing the transport box around your cores
- Gas venting strategies which are impossible on blown / rammed cores
- Guidelines and limitations
- How to CAD up for 3D sand printing
- Reverse engineering - got existing tooling but no CAD? Quicksand can help....
- Costing options - they have it covered and show you the most economical way to utilise this media.
- You will witness plenty of case studies where sand printing is not just a better way, it's the only way

This presentation illustrated lots of CAD, photos, sand prints, videos, case studies and success stories. If our foundry can save time and money, so can yours.



This print had 545 cores inside. An assortment of stick cores, rail casting cores, valve body cores, and impeller cores. All different geometries and sizes.



This print had 1239 cores inside as well as 2 moulds for a prototype. As you can see, it still had space left over. The unused space is filled with unbound sand which protects the cores during freight.

If you missed the live event - don't despair , just click on the link below and view it from start to finish.

https://www.youtube.com/watch?v=B_udoQaXFHQ

The contact details of Quicksand are included on the presentation or contact Shane Corish directly via Email : quicksand3d@gmail.com