



AUSTRALIAN FOUNDRY INSTITUTE
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AFI (Vic) June 2020 Webinar

Race Cast - Automotive Components via a mix of Traditional Methods and 3D Printing

Presenters: Shane & Matt Corish – Race Cast Pty Ltd

Wednesday 17th of June, 6:00pm (AEST)

Webcast link; https://youtu.be/OBoePG_JbSE

Race Cast Pty Ltd (<http://racecast.com.au/>) provides engineering and manufacturing services while also producing their own products. They assist customers turn ideas, rough or refined designs into a product that can be manufactured at scale.

Shane & Matt presented the journey of Race Cast Pty Ltd from its early days to now, showcasing some of their products and the processes of manufacturing including moulding and casting through to finishing. This incorporated a pre-recorded section at Beckwith Ferrous and Non-Ferrous foundries.

The evolution of their V12 LS engine was highlighted from the beginning where two V8 engine blocks and heads were cut at the 3.5 and 2.5 cylinder positions and then welded together to produce one V12 block and head. Once proven Race Cast produced patterns to mould and cast the blocks and heads. Also showcased is their work related to Mazda rotary components.

Race Cast began when they purchased patterns for Mazda rotary IDA manifolds. Nowadays they still sell this part but have expanded the range of rotary components they manufacture. Race Cast utilises the CSIRO Voxeljet 3D sand printer for various components they manufacture, including the water jacket core for the V12LS cylinder head and the Mazda centre plate water jacket cores. Shane shared with us the important relationship Race Cast has with CSIRO which enables them to operate the printer to produce components for commercial sale.

