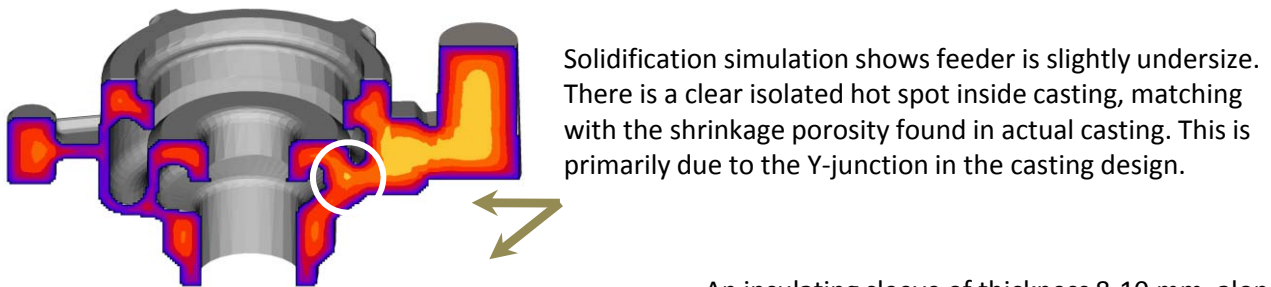
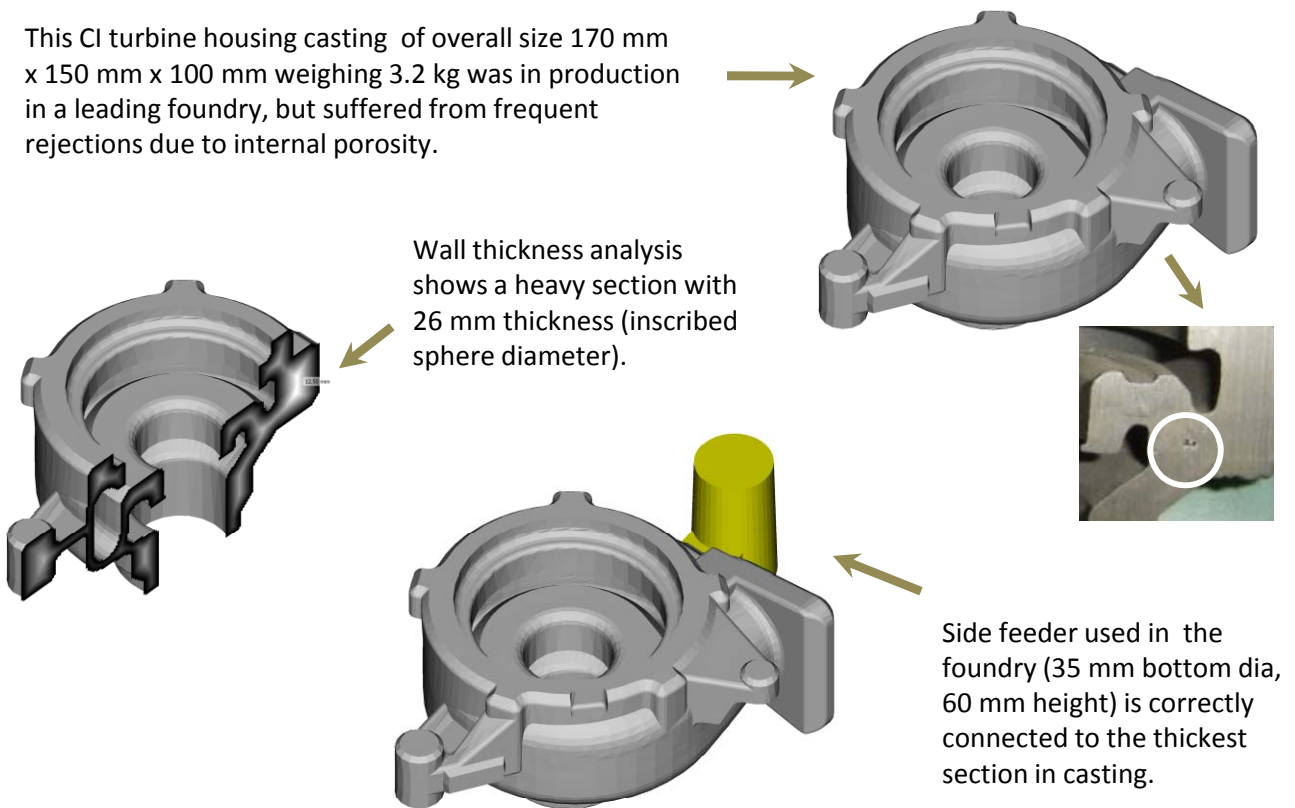


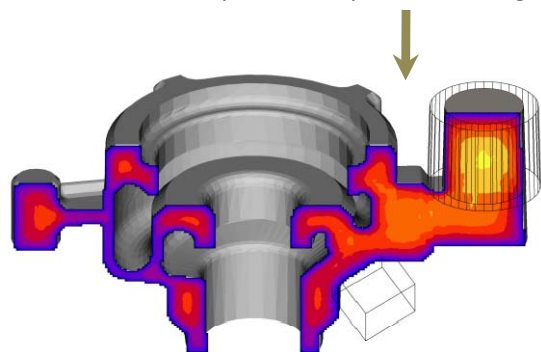
Casting Simulation Case Study

Turbine Housing (Cast Iron, Sand Casting)

This CI turbine housing casting of overall size 170 mm x 150 mm x 100 mm weighing 3.2 kg was in production in a leading foundry, but suffered from frequent rejections due to internal porosity.



An insulating sleeve of thickness 8-10 mm, along with a chill (25 mm cube) below the defect zone, eliminates the hot spot and improves feeding.



This is an industrial case, simplified to illustrate the principles of methods design and simulation. It was performed using AutoCAST-X. Some details have been omitted to protect the manufacturer's interests.