



# Gas Turbine Impeller

The Neo 3D printer series can print investment casting patterns, with industry leading sidewall quality, accuracy and detail. A tetrahedron structure has been applied internally using Materialise Tetrashell software and printed using Somos® WaterShed AF resin. Somos® WaterShed AF is specifically designed for 3D printed investment casting patterns that can produce parts that are dimensionally stable and leaves a minimal amount of ash residue after burnout. With 3D printing, complex geometries can be produced that require little to no finishing which results in significant cost and time savings compared to traditional casting methods.

Industrial gas turbine centrifugal impeller cast in steel.  
Steel part casted by Castings Technology  
(<https://www.castingstechnology.com/>).

System	Neo®450 Stereolithography
Material	Somos® WaterShed® AF
Build Time*	23 hrs
Material Used	341g