

Hydro Dynamics, Inc.

Harnessing the Power of Cavitation



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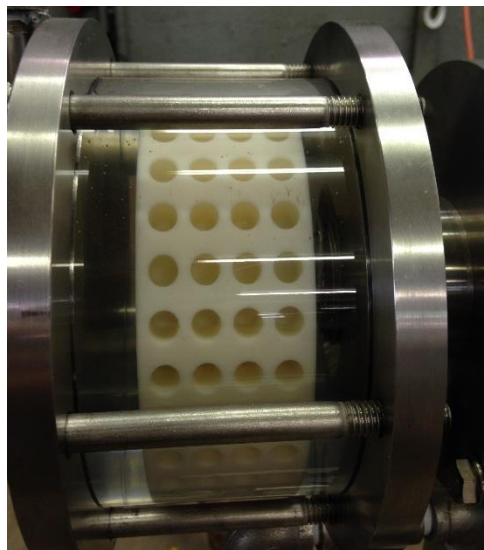
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HDI 3D Prints its ShockWave Power™ Reactor Cavitation Technology with the Help of CloudDDM®



3D printed ShockWave Power™ Reactor rotor in operation in clear demo unit.

Rome, GA – Hydro Dynamics, Inc.™ has successfully conducted tests using a 3D printed rotor for its patented ShockWave Power™ Reactor Technology (SPR™) in its clear housing demo unit. 3D printing is the formation of 3D objects by adding successive layers of material under computer control in a process called additive manufacturing. The 3D rotor, the core of the SPR™, was provided by [CloudDDM®](#), a provider of direct digital manufacturing. The rotor operated identically to a traditional machined steel rotor and CloudDDM® made the process of acquiring the part fast and easy. The rotor was printed in the polymer ABS and 3D printing could offer HDI significant cost and speed advantages in applications where ABS or similar polymers are appropriate.

The ShockWave Power™ Reactor harnesses the energy produced from controlled cavitation, resulting in the superior mixing of fluids, extraction and/or scale free heating. The SPR has an elegantly simple and robust design proven through years of commercial operation in various markets from chemical processing to the production of fuels to food products.

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3D printing has the potential to revolutionize research and development as well as manufacturing by allowing customized parts to be made quickly and inexpensively. In HDI's case this could mean the ability to easily prototype as well as inexpensively produce small and lightweight demonstration units and visual aids. HDI's SPR™ is most commonly made of stainless steel and is manufactured by traditional machining technology and/or casting. HDI is excited to continue to explore 3D printing a potential manufacturing method unique advantages in many situations.

About Hydro Dynamics, Inc™

Hydro Dynamics, Inc.™ is located in Rome, Georgia and is the developer and manufacturer of the cavitation based ShockWave Power™ Reactor (SPR™). The SPR™ equipment uses the physical phenomenon of cavitation, normally known as destructive force, and harnesses it to solve critical industrial mixing, extraction and heating problems. The technology The SPR™ can now be found on four continents in applications ranging from biodiesel production to hops extraction for beer. Learn more at: <http://www.hydrodynamics.com>.

About CloudDDM®

CloudDDM® is a provider of direct digital manufacturing (additive manufacturing) services to the consumer products, packaging, aerospace, automotive, transportation, and medical industries. Headquartered in Atlanta, CloudDDM currently serves designers, engineers, and manufacturers throughout the United States. The company can be found online at <http://www.cloudddm.com>.