

# Hydro Dynamics, Inc.

Harnessing the Power of Cavitation



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## **Hydro Dynamics, Inc. Launches New Portal and Logo Related to Chemical Processing with its ShockWave Power Cavitation Reactor**

*Harnessing the power of cavitation, the ShockWave Power Reactor is a process intensification device that can have large benefits for chemical manufacturers. HDI has launched a new portal related to cavitation based applications in the chemical along with a logo secondary logo based on the periodic at <http://www.hydrodynamics.com/markets/chemical-processing/>.*

Rome, GA- Hydro Dynamics, Inc. (HDI) is launching a new chemistry portal and secondary logo related to its work in the chemical industry. Using process intensification, the ShockWave Power Reactor (SPR) can heat and/or mix liquids with other liquids, solids or gases. When products are processed through the SPR, the shockwaves from cavitation bubble implosion subject the fluid to tremendous mixing forces in a small volume, also known as process intensification. Process intensification often produce superior results to conventional technology in regard to yield, reaction speed, product quality, safety, environmental impact and raw material utilization. Commercially available chemical applications include:

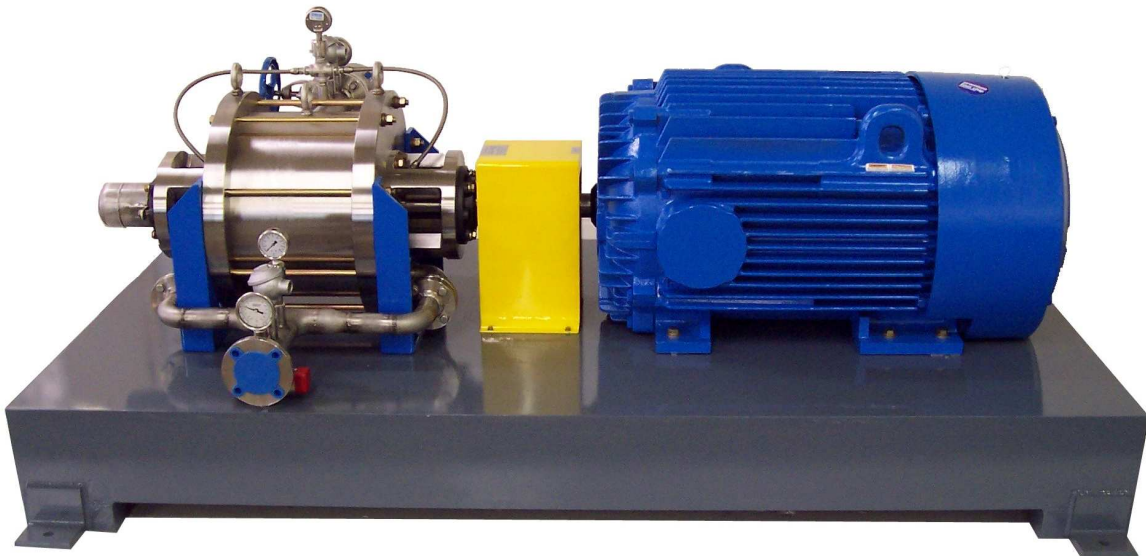
- Scale-Free Heating and Concentration
- Mixing (Increased Mass Transfer)
- Extraction
- Process Intensification
- Transesterification
- Hydration
- Emulsification
- Oxidation
- Thick Liquid Mixing

The SPR is able to be manufactured out of nearly any material for flows from 1 L/min to 2,000 gallons/minute in a single unit and thus can be applied to most any chemical application that could benefit from process intensification. HDI sees tremendous potential for expanded use of the SPR in the chemical industry and stands ready with lab units available for purchase or rental.

New secondary chemical logo:

1 <b>H</b> Hydrogen 1.00794	39 <b>Y</b> Yttrium 88.90585	105 <b>Db</b> Dubnium [268]	86 <b>Rn</b> Radon [222]	8 <b>O</b> Oxygen 15.9994
66 <b>Dy</b> Dysprosium 162.5	7 <b>N</b> Nitrogen 14.0067	95 <b>Am</b> Americium [243]	53 <b>I</b> Iodine 126.90447	55 <b>Cs</b> Caesium 132.9054519

Shockwave Power Reactor:



### About Hydro Dynamics

Hydro Dynamics is the developer of a patented cavitation process intensification technology called the ShockWave Power Reactor (SPR), enabling customers to solve critical mixing and heating problems. Reactors are operating on four continents with well-known customers in applications as diverse as increasing biogas yields to mixing petroleum drilling mud to more efficient homogenization and pasteurization of liquid eggs. The ShockWave Power Reactor allows customers to significantly decrease costs and increase profits, often with environmental and safety benefits. Learn more at <http://www.hydrodynamics.com>.