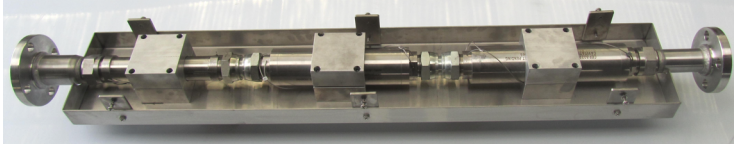




NANO REACTORS



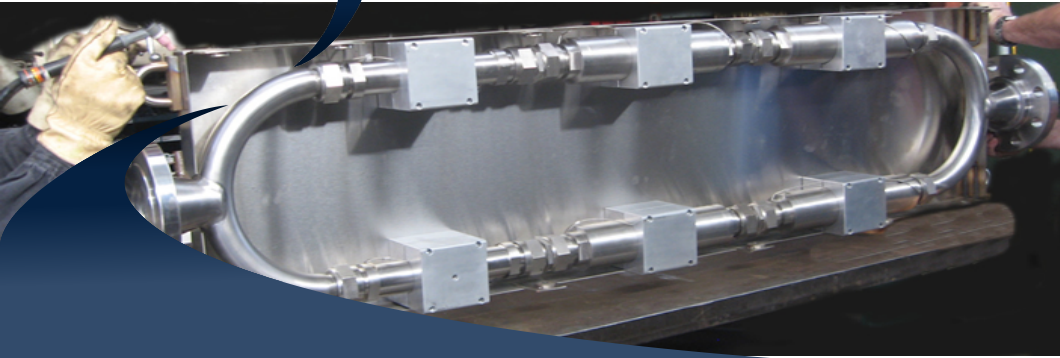
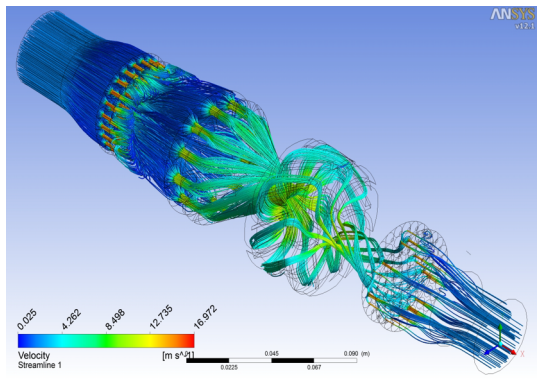
» SKID SYSTEMS

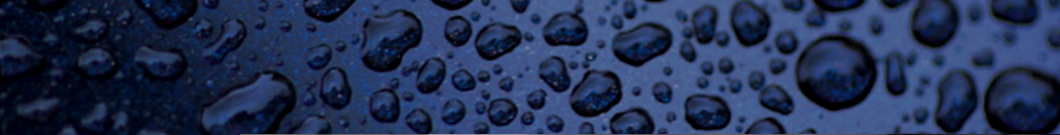


CTI is an innovative leader in processing liquids, fluidic mixtures, emulsions and suspended solids. Founded in 2007, the Company has developed an array of advanced hydrodynamic cavitation-based technologies with applications in vegetable oil refining, renewable fuels production, water treatment, petroleum upgrading, alcoholic beverage enhancement, algal oil extraction and other industries. CTI designs robust, versatile, multi-stage flow-through devices and systems, and holds two patents on the devices.



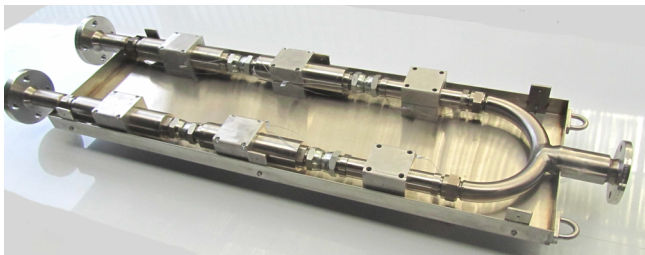
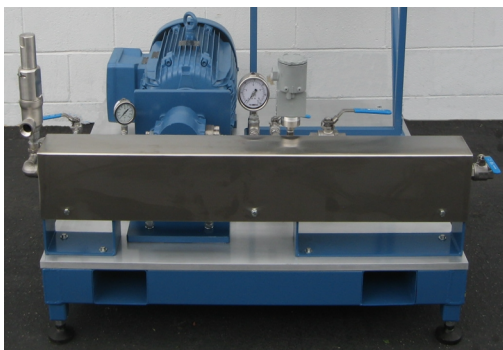
»» INLINE INSTALLATIONS





The Company has commercialized its patent-pending CTI Nano Neutralization® process offering refiners of edible oils and fats significant yield improvements, substantial cost savings and environmental benefits. Desmet Ballestra, the leading global solutions provider for the edible oil and fats and biodiesel industries, has partnered with CTI to market the technology worldwide to large-scale vegetable oil refineries.

Cavitation processing is an emerging technology in food processing. When cavitation passes through a liquid, bubble nuclei present in the liquid grow by bubble coalescence and rectified diffusion. When these bubbles reach a critical size range, they collapse under near-adiabatic conditions generating extreme conditions within the bubbles and in the surrounding liquid that include intense shear forces, turbulence and microstreaming effects. These cavitation-induced physical effects are finding increasing use in food and dairy processing, in applications such as the enhancement of whey ultrafiltration, extraction of functional foods, reduction of product viscosity, homogenization of milk fat globules, crystallization of ice and lactose and the cutting of cheese.



Nano Reactors Specifications



Available flow capacity for each line	38 to 510 l/min (10 to 135 US GPM)
Operating Pressure	from 52 bar to 75.8 bar (750 PSI to 1100 PSI)
Construction	316 Stainless Steel
Recommended filtration	40 micron max, non abrasive material
CE certified	
Patented	