

## PCH - Shear Pump

### Introduction:

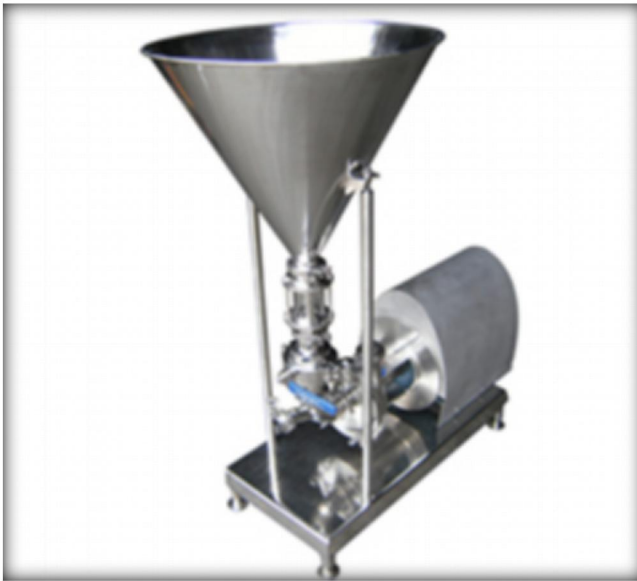


A shear pump combines the advantage of both a centrifugal pump and an inline high shear mixer. It achieves the balance of pumping efficiency and shearing energy. With the special impeller and slotted stator, and its highly sanitary design, the shear pump is widely used to deliver viscous materials in dairy, food, cosmetics and pharmaceutical industries.

### Features & Options:

An optional hopper or a feeding table can be installed to dissolve/disperse powders into liquid in a fast and efficient way. All contact parts are made by stainless steel 316L (304 is optional for low budget). Single or double mechanical sealing is chosen according to different materials. The shear pump can be easily cleaned with CIP (Clean In Place) system to save time and labor.

## Applications:



Some of the applications of shear pumps are:

### - Food & Beverage

Butter, Canned foods, Cheese, Condiments, Dairy, Dressings, Flavorings, Ice cream, Juices, Ketchup, Salads, Syrup, Yogurt

### - Pharmaceuticals

Cough syrup, Emulsion, Medicine, Ointment, Pharmaceutical, Vaccine, Veterinary drug

### - Cosmetics

Creams, Detergent, Gels, Hair conditioner, Lotions, Shampoo, Tooth paste

## Specifications:

Model	Watts, kW	RPM, @50Hz	Max. Capacity	Size [DN]	
			[L/hr] @ 1 cPs	Inlet	Outlet
PCH-100	2.2-4	3,000	5,000	2"	1.5"
PCH-130	5.5-7.5		10,000	2.5"	2"
PCH-160	11-18.5		20,000	2.5"	2.5"
PCH-190	22-30		30,000	3"	2.5"
PCH-210	30-37		40,000	3"	3"

- 1) Actual liquid capacity will vary depending on the liquid type and different stator rotor system.
- 2) PerMix offers bigger capacity according to customer requests.
- 3) PerMix reserves the right to modify the design without notice.

**Gallery:**



[www.permix-mixing.com](http://www.permix-mixing.com)

PCH Shear Pump with Feeding Table



[www.permix-mixing.com](http://www.permix-mixing.com)

PCH Pump with Feeding Hopper



[www.permix-mixing.com](http://www.permix-mixing.com)

Stator/Rotor of PCH Shear Pump



[www.permix-mixing.com](http://www.permix-mixing.com)

PCH Shear Pump Ready for Delivery