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PCH SHEAR PUMP

## PCH SHEAR PUMP



PerMix PCH series 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.

PerMix Shear Pump has a pair of stator rotor, and the rotor is made of a pumping impeller in the center and a toothed ring. By this design, PerMix Shear Pump can keep a medium shearing performance while give a fairly large pumping capability. When a higher shearing is required, the customer can go for the PerMix PC series Inline Emulsifying Mixer.

PerMix PCH Shear Pump is designed and built in all stainless steel, especially for hygienic applications, for example dairy, food, cosmetics and pharmaceutical industries. PerMix Shear Pump can be easily cleaned with CIP (Clean In Place) system to save time and labor.

## POWDER INCORPORATION

By installing an optional hopper or a feeding table, PerMix Shear Pump is converted to a Powder Liquid Mixer, to be able to dissolve/disperse free flowing powder material into light liquid in a quite fast and efficient way.

This design is especially helpful when it comes to disperse difficult-to-wet powders (gums, thickeners, stabilizers), or deagglomerate micro-phase solid ingredient (silicon dioxide, bentonite, titanium dioxide) into liquid without fish-eyes, which is not possible to achieve by using a conventional agitator.



## FEATURES & OPTIONS

PCH Shear Pump is ideal for dairy, beverage, food and other hygienic applications, with the following features and options:

- Compact and streamlined design
- All built in stainless steel, with a stainless steel motor shroud
- Easy assembly and disassembly
- Free flow powder induction, high efficiency, free of lumps and fish-eyes
- 90% process time reduction compared with conventional agitator mixing
- CIP available
- Interchangeable stator rotor of various type for different purposes (Option)



## APPLICATIONS

Some typical applications of PCH Shear Pumps:

- **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	Motor, kW (*)	RPM @50Hz	Max. Liquid Capacity, L/hr	Max. Powder Capacity, Kg/min	Size [DN]	
					Inlet	Outlet
PCH-100	4	3,000	5,000	2-4	40	32
PCH-130	5.5		10,000	5-10	50	40
PCH-160	18.5		20,000	10-18	65	50
PCH-190	30		30,000	15-32	65	50
PCH-210	37		40,000	20-50	80	65

- kW is product dependent and might vary.
- Actual liquid and powder capacity will vary depending on the liquid and powder characteristics and the stator rotor type used.
- PerMix offers bigger capacity according to customer requests.
- PerMix reserves the right to modify the design without notice.

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Besides, PerMix have been building a network of agents located in Europe (Germany, Denmark, UK, Belgium, France, Spain, Poland, etc), Asia (South Korea, Indonesia, Thailand, Malaysia, Singapore), and several other countries.

