

Inline Solid-liquid Dispersion Mixing System

The system integrates multiple functions such as mixing, dispersing, homogenizing, emulsifying, and powder suction. When these functions are not needed, it can be used as a cleaning pump to meet CIP/SIP self-cleaning requirements.

Special small blade design ensures the mixing effect with minimum processing volume and enhances the mixing efficiency of the container cone.

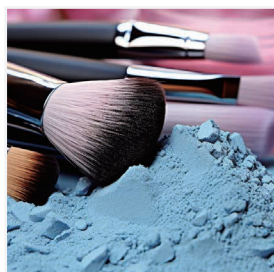
The special upper rotor design is used for mixing and conveying materials, and can also be used for small processing volume circulation. It can generate 4 bar pressure when rotating at high speed, which can assist CIP cleaning without an external cleaning pump.

The mixing chamber and the dispersing chamber can realize weak shear mixing or high shear dispersing homogenization of materials through internal switching, and can also realize vacuum suction of powders/liquids, and realize in-line multiphase material contacted quickly, mixing, dispersion, emulsification, homogenization and other functions.



FSH-HDK

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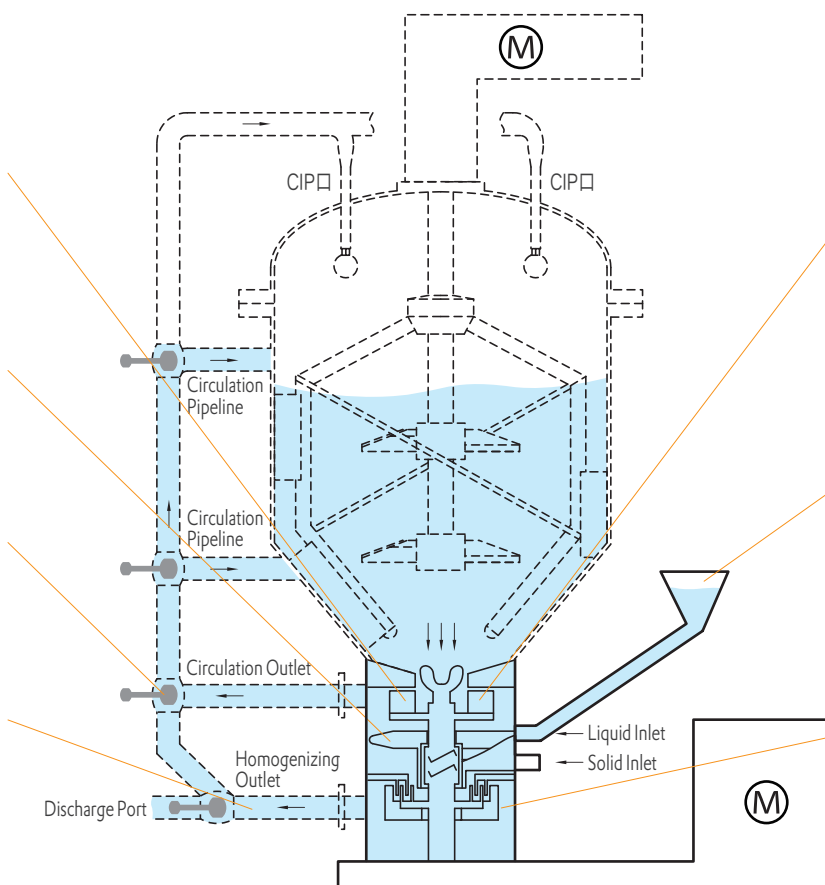
Model	Maximum Processing Capacity (H ₂ O) Mixed / High shear (L / H)	Powder Processing Capacity (KG / H)	Motor Power (kW)	Size of Circulation Pipeline and Liquid / Solid Inlet
FSH-HDK40	3000/2200	10-200	4-5.5	1"/1"
FSH-HDK50	15000/5000	30-600	7.5-11	1.5"/1"
FSH-HDK100	45000/21000	70-1400	22-37	2"/1.5"
FSH-HDK200	85000/45000	150-2500	45	3"/2"
FSH-HDK260	170000/70000	300-4500	90	4"/2.5"

Special design allows for rapid powder-liquid premixing and dissolution, improving premixing efficiency.

Homogenizing circulation system, which will realize circulation/discharging in the tank.

Mixed circulation system which will realize circulation/discharging in the tank.

Function of the switching module: realize the switching of the mixing circulation/homogenizing circulation module and the side suction powder/liquid function.



Specially designed structure can be used for mixed conveying of materials and can also assist in CIP cleaning without an external cleaning pump.

Side suction powder/liquid function, the powder and liquid are dispersed instantly when they come into contact.

Homogenizer: Special high shear structure for perfect results.

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