Hydraulic high speed disperser (dispersion machine) is an equipment for mixing liquid and solids to dissolve, disperse and homogenize. With high speed, the media is stirred, dissolved and distributed evenly. The hydraulic pump drives the hydraulic cylinder ascend and descend, which drives the whole transmission and working set up and down. High speed mixers are widely used in mixing,dispersing and dissolving liquid and solid including paint, pigment, ink, pesticide, dye, resin, food etc.

How does a hydraulic high speed disperser work?

Through the high-speed rotation dispersing disc, the raw material will become in annular form flow, resulting in strong vortex flow, which descend down to the bottom of the vortex in spiral state. During the process, materials are dispersed, dissolved, mixed and emulsified efficiently due to the strong shearing crash and friction among the particles.

Features

Higher efficiency:

SeFluid's Hydraulic high speed disperser series have a speed up to 2930rpm, and the linear velocity is over 20m/s. Our mixers can rapidly disperse the powder in the liquid evenly; Due to its high shear forces, the material will be uniformly dispersed and formed a good suspension effect.

High speed mixer series with more options:

Different options are available such as explosion-proof type, closed type, multi-tanks type, with lifting cover type, co-axial type/dual-shaft type, mounted on kettle type, etc.. Material can be customized to be SS304 \SS321 \SS316\SS316L

The operation is safe and convenient

Adopt hydraulic cylinder as lifting actuator. It is easy to control the hydraulic up/stop/down through the oil pump. The dispersing blade of high speed mixer can be disassembled and replaced quickly and it is easy to clean the blade. There are different dispersing blades for options based on different matrial. Different clamping types(Belt Clamping, Manual Rotation Clamping, Pneumatic Clamping) are optional to fix the tanks properly to prevent from accident due to the tank displacement during operation.

Various installation ways for high speed mixer

Floor type, platform type and in tank type installation for options.

Technical Specification

MODEL	MOTOR POWER (kw)	MAX. SPEED (rpm)	MIXING DISC DIA. (mm)	BATCH CAPACITY (L)	VERTICAL STROKE (mm)
SHFL40	4	1500	200	200	700
SHFL45	7.5	1500	230	400	900
SHFL50	11	1500	250	500	900
SHFL55	15	1500	280	600	900
SHFL60	18.5	1500	300	1000	1100
SHFL65	22	1500	350	1200	1100
SHFL70	30	1500	400	1500	1200

MODEL	MOTOR POWER (kw)	MAX. SPEED (rpm)	MIXING DISC DIA. (mm)	BATCH CAPACITY (L)	VERTICAL STROKE (mm)
SHFL75	37	1500	400	1800	1200
SHFL80	45	1500	450	2000	1400
SHFL85	55	1500	500	3000	1600
SHFL90	75	1500	550	4000	1800
SHFL95	90	1500	550	6000	1900
SHFL100	110	1500	600	7000	1900