

Three Stages Inline High Shear Homogenizer Pump



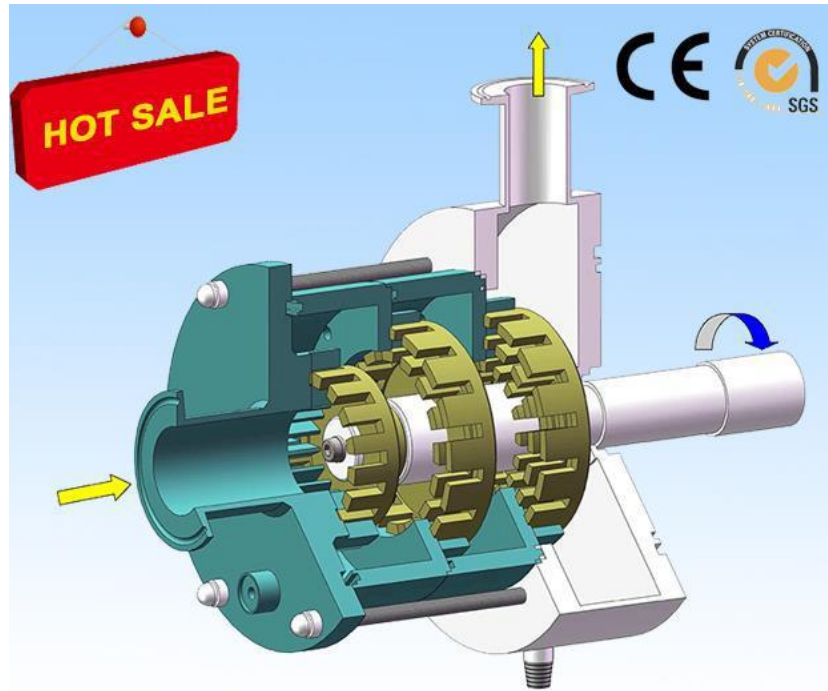
Inline High-shear Emulsifier pump is a continuous production type emulsifier with high efficiency. It processes materials in continuous production or circulation of fine materials. The motor drives the rotor to rotate at high speed. It narrows the particle size of Liquid-liquid and liquid-solid materials through external mechanical force and distributes one phase materials into another phase or many other phases evenly to realize good homogenizing, dispersing and emulsifying result. As a result, the materials become stable emulsion. It can be equipped with materials transfer pump in front of it to make it suitable for materials with mid-and-high viscosity. The materials are thoroughly dispersed and sheared after going through it. It is characterized in low noise and stable running, short transfer distance and low head. Inline high-shear Homogenizer with precision stator and rotor, widely used in the area of bitum emulsion, modified asphalt emulsion, food, beverage, diesel emulsion, etc.

Working Principle

Has similar work theory with high shear batch emulsifier, which the rotor and stator work together to generate strong shearing power during speedy running to realize mixing, smashing and emulsion. Inline mixer could also be fixed on pipeline to do continuous work. The standard components are pump chamber, rotor and stator. Inline mixer is applied to emulsify and disperse kinds of liquids continuously, transmits low viscosity material and mix powder and liquid. It is widely used in the field of Daily, Beverage, food, Pharmacy, Chemical industry etc.

Specification

- The grinding cavity is consists of three groups of stator and rotor (2 layers, 4 layers and 6 layers), highly working accuracy, large capacity and wide viscosity, more suitable for industrial on-line production.
- High shear emulsion pump is best emulsifying effect and top efficiency, more suitable for production which need high requirement for emulsifying, then it is the first choice for the micro-emulsion production.
- According to your PH, there are materials of ss304 and 316L for your choice.
- Adopting double mechanical seal also can configure water protector
- It is elastic connection, low noisy and table performance.
- It can design jacket for cooling and heating.



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High Shear Homogenizer Pump

Advantages

1. High processing capacity, suitable for industrial continuous production
2. Smaller distribution of particle sizes and higher evenness

3. Low noise and stable running

4. No dead corner, material by 100% dispensed and sheared

Application

Emulsifying (Liquid to liquid), suspending (solid to liquid), aerosol making (gas to liquid) and homogenizing painting, oil paint, food, accelerating reaction speed, improving activator productivity, nano-chemical products producing.

Data Sheet & Models

Model	Power(kw)	Rotation Speed(rpm)	Flow(m3/h)	Entrance (mm)	Exit (mm)
ELR401/3	1.1/1.5	3000	0.5	DN40	DN32
ELR405/3	4	3000	2	DN40	DN32
ELR410/3	7.5	3000	4	DN50	DN40
ELR415/3	11	3000	6	DN60	DN50
ELR420/3	15	3000	12	DN60	DN50

ELR425/3	18.5	1500/3000	16	DN60	DN50
ELR430/3	22	1500/3000	18	DN60	DN50
ELR450/3	37	1500	26	DN100	DN80
ELR460/3	45	1500	30	DN125	DN100
ELR475/3	55	1500	32	DN125	DN100
ELR490/3	75	1500	45	DN125	DN100
ELR510/3	90	1500	55	DN125	DN100
ELR530/3	110	1500	70	DN150	DN125

Professional technical supports & Processing Machines

Our engineers are around 20years rich experience in this area, professional skills and stable processing.

We have lathes, grinder, drilling machine, boring machine, polishing machine, milling machine...etc.



Office



Fine process center



Fine process center



Polishing center



Welding



Grinding

Maintenance & Services

1. Before order, customer can take materials to our lab and make test grindings, spot-testing parameters like particle size distribution, obtain reliable data for model selection;
2. We provide you operation manual by Chinese or English;
3. Within 12-months warranty period, we promise to change damaged parts free of charge by air or by sea;
4. Meanwhile, our skillful grinding experts can offer you free professional technical consulting and service.