



温州市悠远流体设备有限公司

Wenzhou Yoyond Liquid Equipment CO.,LTD

GJB 系列 高压均质泵

GJB Series High Pressure Homogenizer



Homogenizing & Thinning
High Pressure Delivery



温州市悠远流体设备有限公司

WENZHOU YOYOND LIQUID EQUIPMENT CO.,LTD

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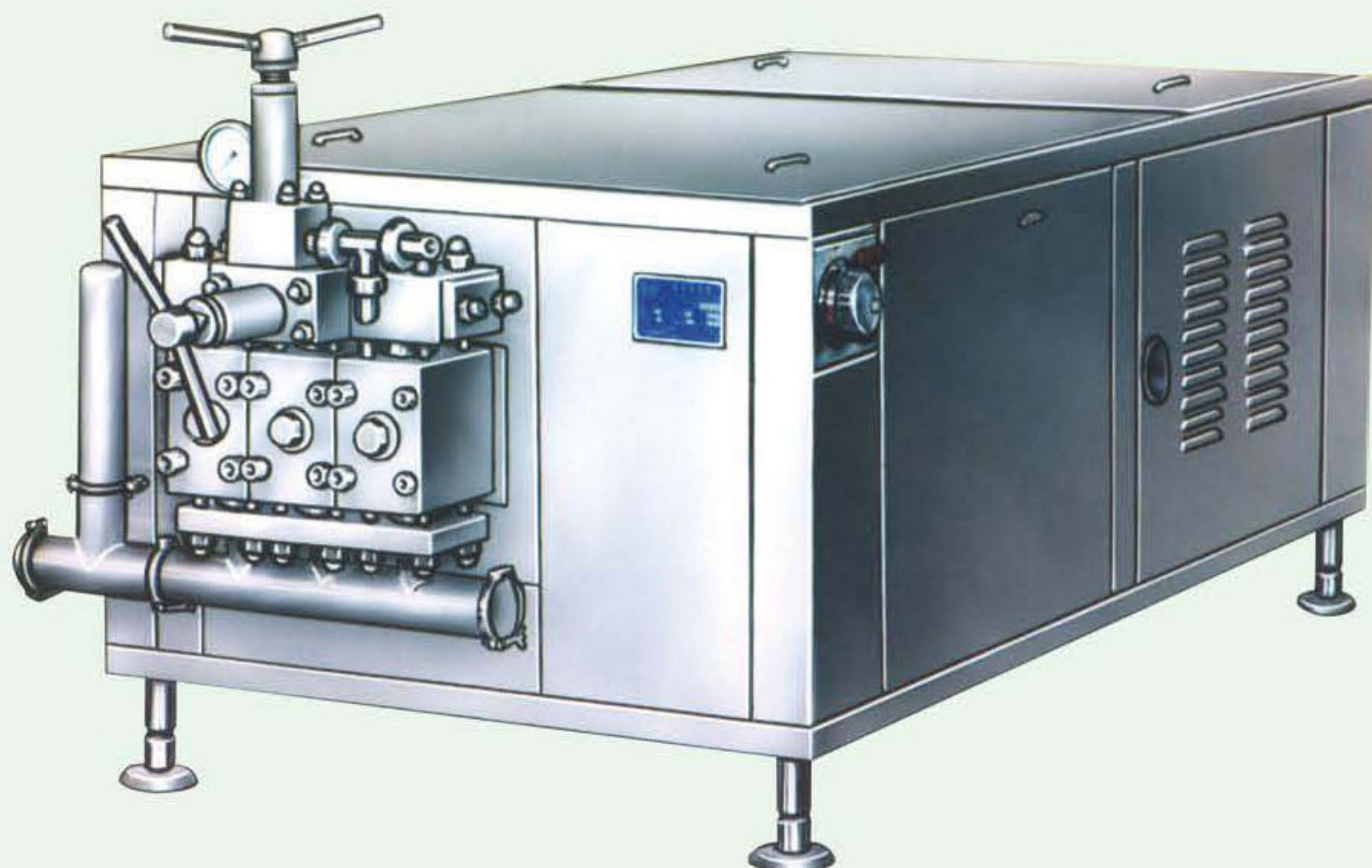


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Wenzhou Yoyond Liquid Equipment CO.,LTD

GJB Series High Pressure Homogenizer

——Phytoprotein, maltodextrin and amylum industries special homogenizer



Special design and manufacture according to the high viscosity, large flow and high pressure features in phytoprotein, maltodextrin and amylum processing.

Main Characters:

- ☐ Sufficient flow, actual flow larger than nominal flow.
- ☐ Non-return valve (valve and valve seating) made of special steel, wear resistant, impact resistant, corrosion resistant and operational reliable.
- ☐ Homogenizer uses special structure, homogenizing rod(seat) made of high strength super hard material, wear well and homogenizing effect significantly.
- ☐ Piston seal uses dipped PTFE rectangle oil seal, sealing well, resistant to high temperature and high pressure. The service life improved by 4 - 6 times.
- ☐ Transmission crankshaft made of special steel and after case hardening, the more used the more bright. The gear uses hard-surface and refining skew gear which is long life, high wear resistant and low driving noise.
- ☐ The transmission gear uses hydraulic oil forced pressure lubricate and cooling, and install lubricant oil display and warning device.



Plunger Gasket



Plunger Piston

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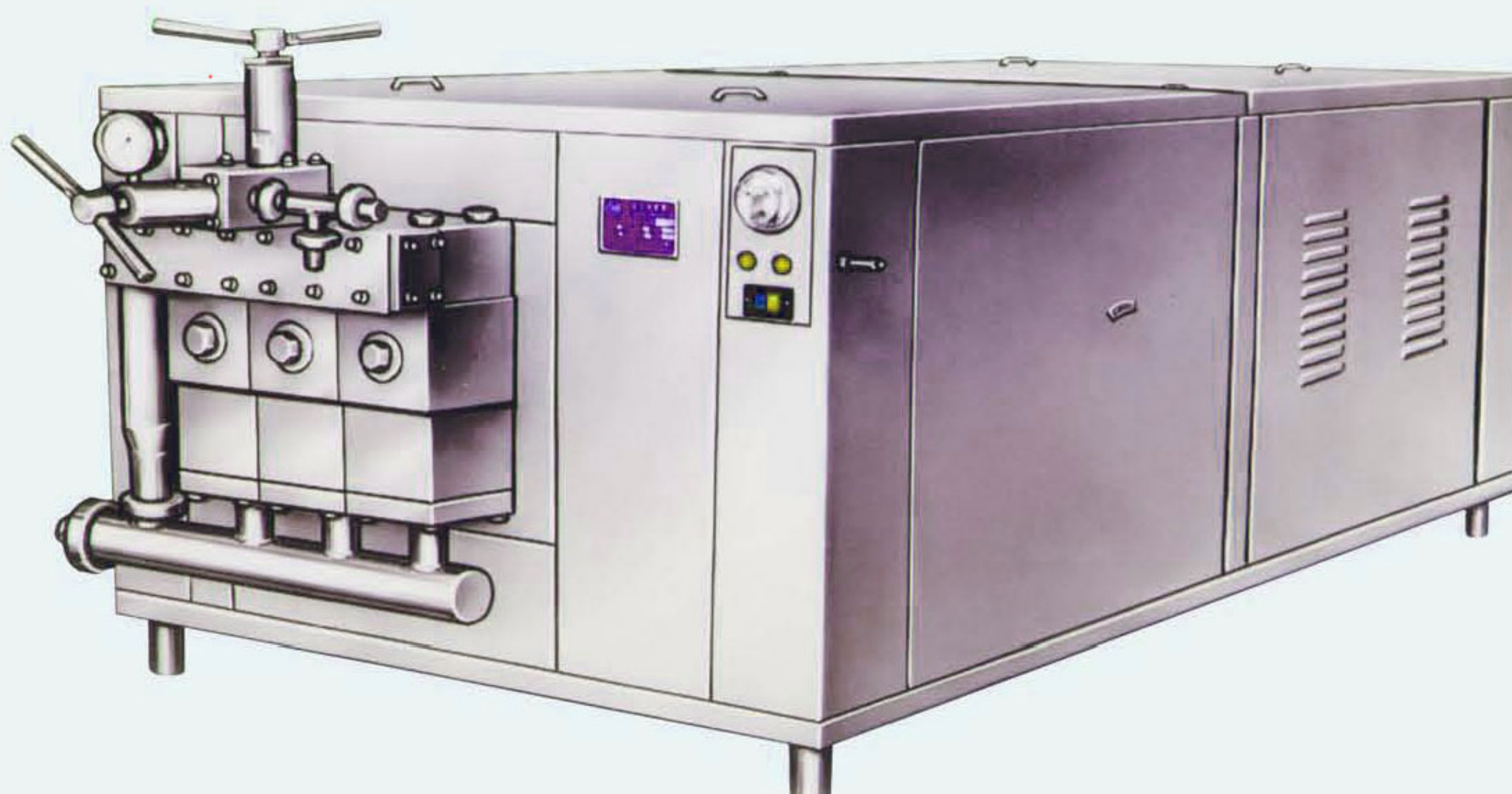


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GJB Series High Pressure Homogenizer

——Large-sized Horizontal High Pressure Homogenizer



Main Characters:

- ☐ Adopt horizontal structure, gravity center falling off, quiet driving, low noise, easy operation and maintenance.
- ☐ The transmission gear uses hard-surface and refining skew gear, has high bearing capacity, smooth and reliable transmission, low noise and etc. advantages. The whole machine driving noise lower than motor noise.
- ☐ The transmission gear uses hydraulic oil forced pressure lubricate and cooling, and install lubricant oil display and warning device, assure reliable and sufficient lubricating and cooling.
- ☐ Pump body is divided structure, has large strength, convenient operation and maintenance characters.
- ☐ Piston seal uses dipped PTFE rectangle oil seal, sealing well, resistant to high temperature and high pressure and with long service life.



Lubricant oil display and warning device



Valve & Seat(Non-return valve)



Homogenizing rod (seat)ring

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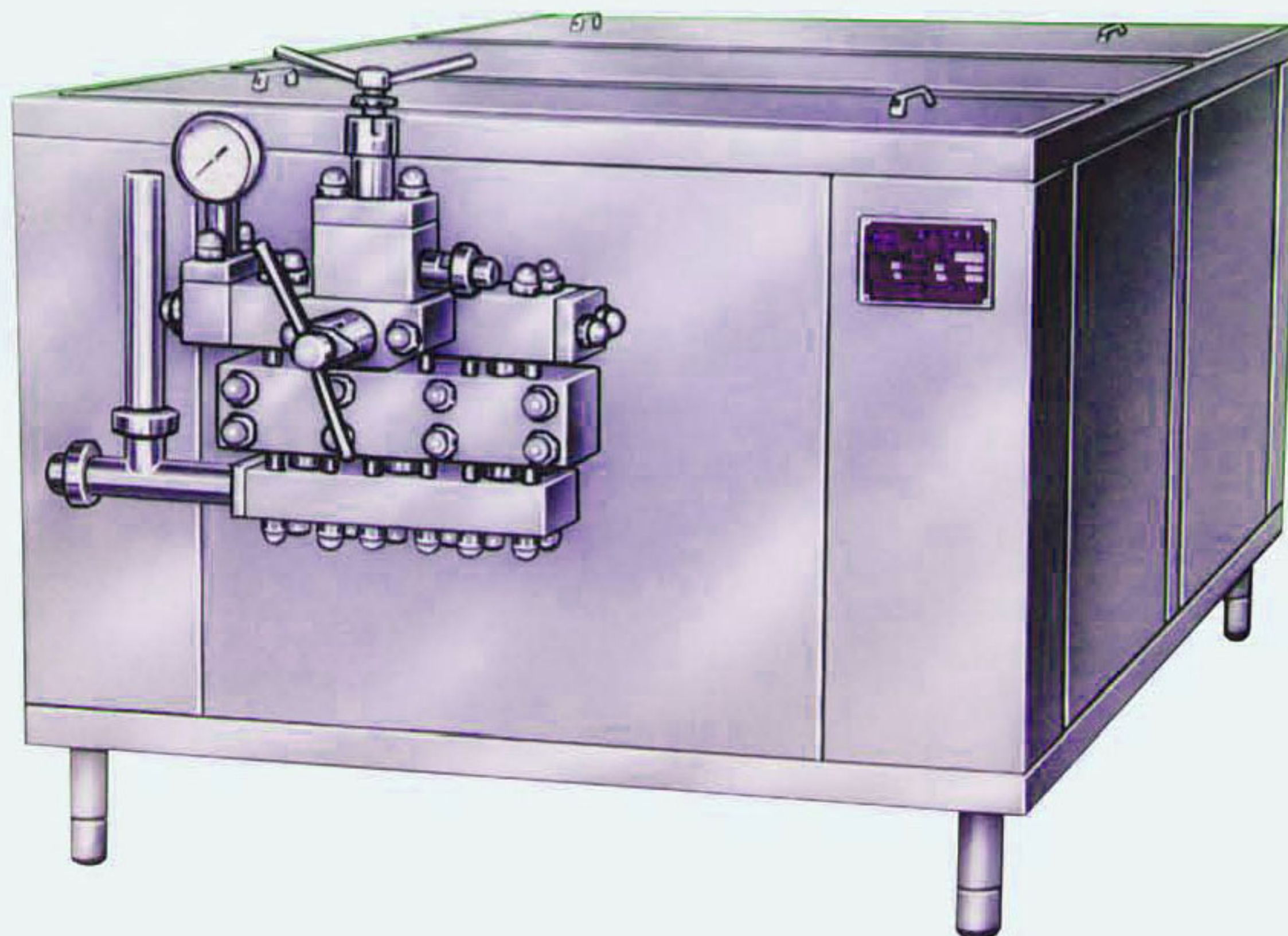


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Wenzhou Yoyond Liquid Equipment CO.,LTD

GJB Series High Pressure Homogenizer

——Grease Lubricant Industry Special High Pressure Homogenizer



Special design and manufacture according to the specific high temperature, high viscosity and etc features in the grease lubricant processing

Main Characters:

- ☐ Sufficient flow, actual flow is larger than nominal flow.
- ☐ Working pressure equal to rated pressure (assure long running pressure not smaller than rated pressure).
- ☐ Non-return valve (valve and valve seat) is made of special steel, wear resistant, impact resistant and corrosion resistant, operational reliable, no need to change always.
- ☐ Homogenizer adopts special structure, homogenizing rod (seat) is high strength super hard material, durable with ages, no need to often change.
- ☐ Against high temperature problem, piston seal uses dipped PTFE rectangle oil seal, sealing well, resistant to high temperature and high pressure. The service life improved by 4 - 6 times. Other O type seals adopt fluoro rubber gasket which is also resistant to high temperature and high pressure, satisfy working environment requirement.
- ☐ Transmission crankshaft made of special steel and after case hardening, the more used the more bright. The gear uses hard-surface and refining skew gear which is long life, high wear resistant and low driving noise.

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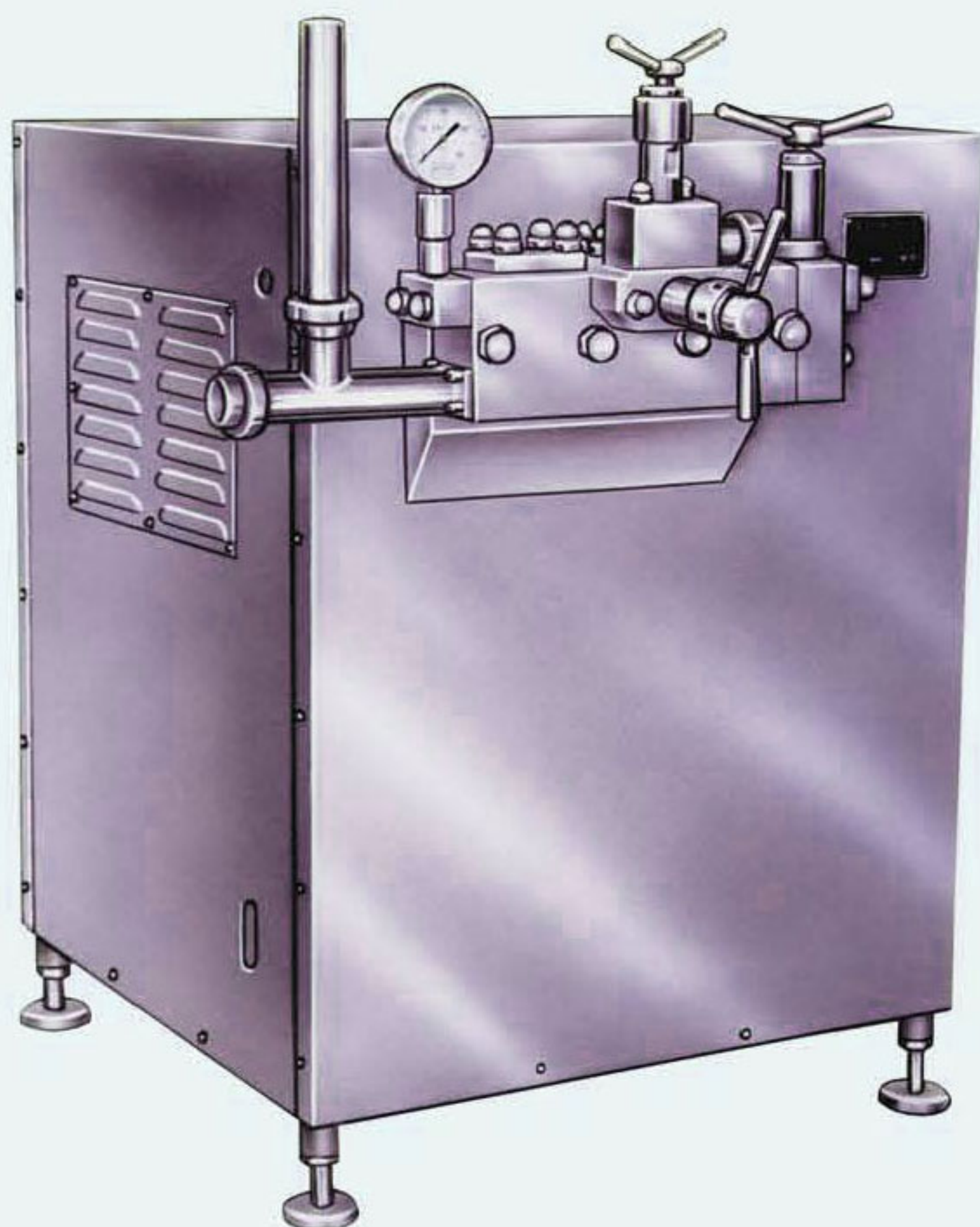
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GJB Series High Pressure Homogenizer



GJB series high pressure homogenizer is the special equipment for homogenizing, fining and high pressure conveying of liquid materials. It is used widely and is the high efficient modern equipment.

GJB series high pressure homogenizer has novelty construction, convenient to operate and maintain, easy to assemble and disassembling, is safe and reliable. It's improved apparently compared with like products, is the important equipment in dairy, beverage and etc food industries.

The liquid materials produce high pressure through this equipment, they are manufactured into powder by the spraying and drying apparatus. They are the important equipments in the powder production.

Master Datas:

Specific specifications, model numbers, flow is 0.01 - 20 m³/h, pressure is 20 - 100 Mpa, production capacity is 2000 sets/year.

Suitable Industries:

Dairy, beverage and etc. food industries. This machine also is the ideal equipment in medicine, cosmetics and other chemical manufacturing which need high pressure conveying, high pressure spraying and liquid material homogenizing.

Partial Customers:



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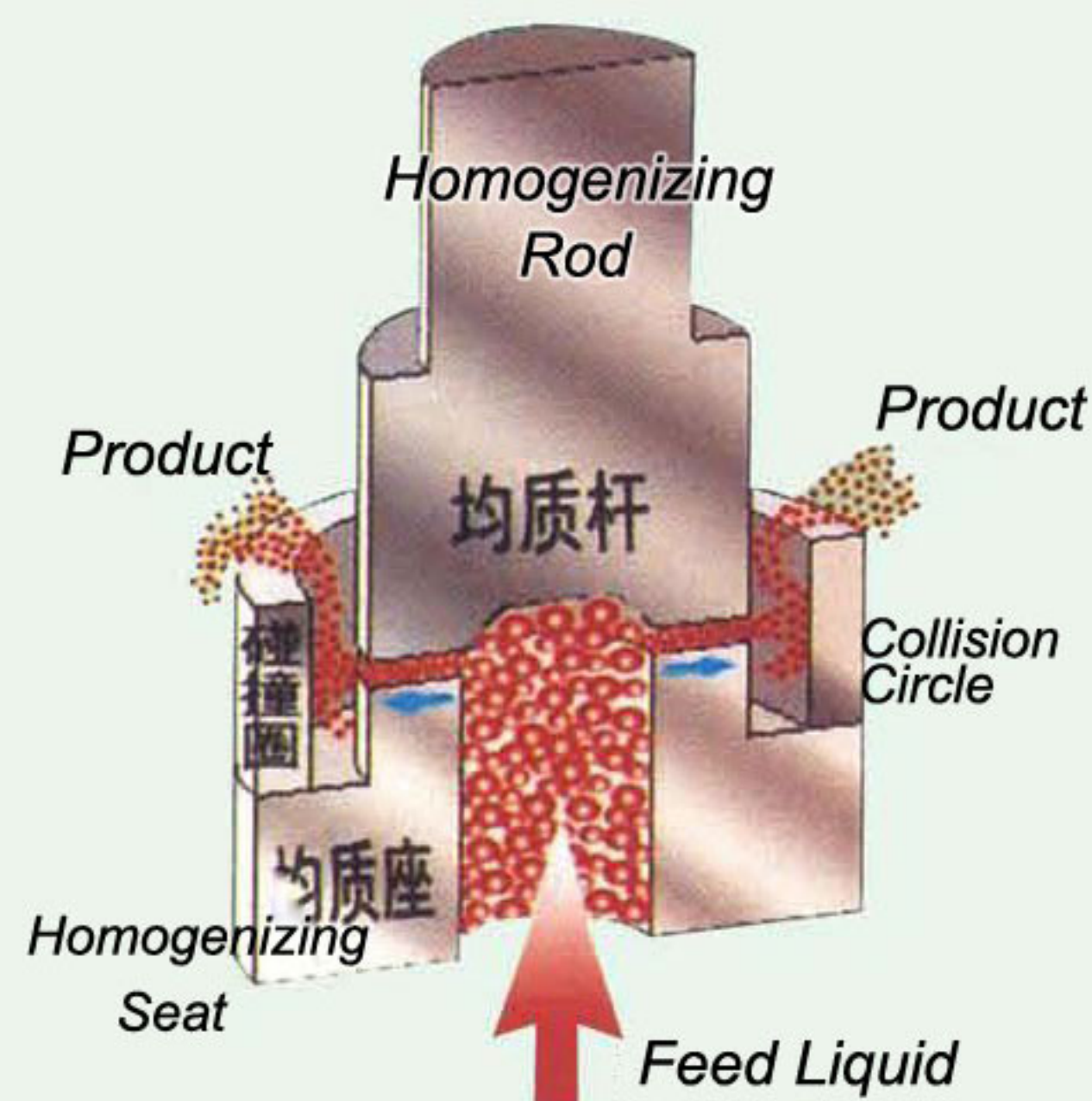
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GJB Series High Pressure Homogenizer



Homogenizing Principle



Dairy Industry



Fine Chemistry Industry



Cold Food Industry

Working Principle:

High Pressure Homogenizing is: the liquid material is pressurized by the reciprocating pump and enter into homogenizer under high pressure condition. There happens strong turbulence when passing by the narrow flow passage. Under the actions of high speed (200-300m/s) shear, extruding, void effect under loss of pressure and strong impact, the particulate and emulsion cluster of liquid material are crashed and homogenized. It makes the liquid material homogenizing, thinning and stable which optimizes quality.

Product Application:

Widely used in the production, research and development of food, dairy, beverage, pharmaceutical, fine chemical engineering and biologic technology fields.

- For the dairy product liquid materials as milk, bean milk, and etc, if homogenized under high pressure, the fat globule in the dairy product liquid can be significantly fined, this kind of dairy products can be easily digested and absorbed, and the nutritive value can be improved.
- For the production of ice cream and etc. products, the fineness and looseness of liquid materials can be improved, and the inner quality can also be significantly improved.
- For the production of emulsion, gel agent, fruit juice, and serous liquid, the delamination of liquid materials can be prevented and decreased, the appearance of liquid materials can be improved, the colour is more bright, the fragrance is denser and mellower and tasted better.

Specification

Flow	Rated Working Pressure MPa								Power (Kw)
	15	20(18)	25	30(32)	40	60	80	100	
Rated Flow m ³ /h			0.5			0.2			5.5
			1						7.5
			1.5		0.6				11
					1	0.6			15
			2				0.6	0.5	18.5
			2.5	2	1.5	1			22
	5		3	3			1		30
	6	5	4		2.5	1.5		1	37
	8		5	(4)	3	2	2		45
	10	8	6	5	4				55
			7	6	(5)	3			60(65)
	15		8		6				75
		(15)	10	8	7	4			90
			12	10	8	5			110
			15		10	6			132
				15	15	8			160

Note: We can also produce according to customers' requirement.

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