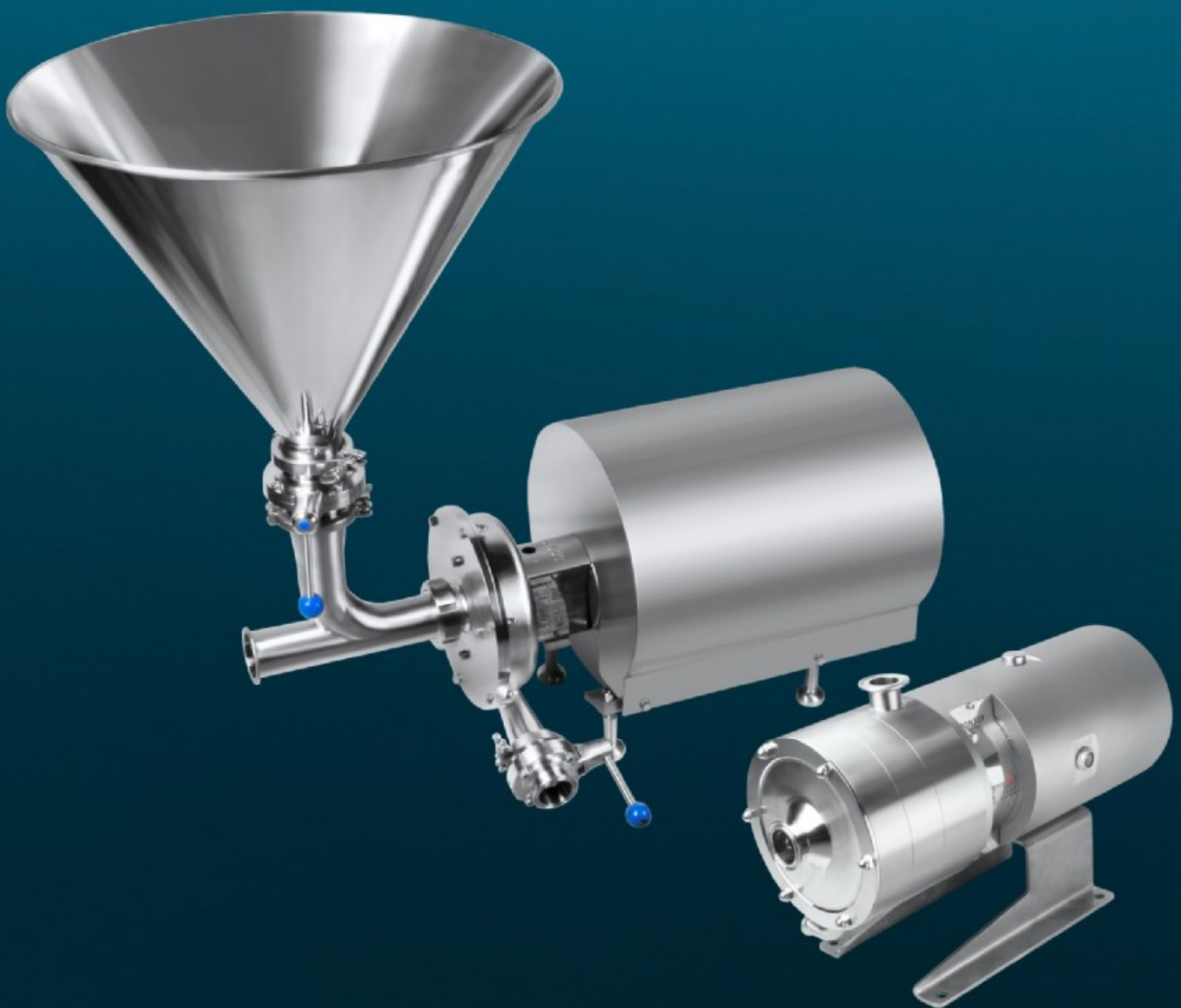


Emulsifying homogenizing pump series

乳化均质泵系列



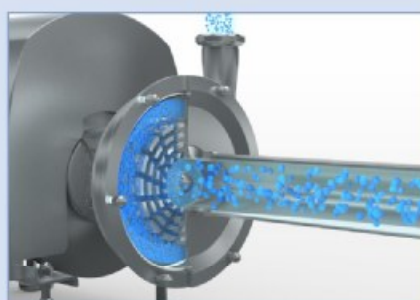
DJ-JZ1 系列单级乳化均质泵

DJ-JZ1 series single stage emulsifying homogenizing pump



高效、分散、剪切、细化、破碎、
乳化、混合、均质、高洁净的解决方案

Solutions for high-efficiency, dispersion, cut, refinement, smash, emulsification, mixing, homogenization, high purity



JZ1系列是一款由定子和转子组成的在线连续性生产的乳化均质泵，被处理的物料将经过6-10层转子和定子被逐级分散、剪切、细化、破碎、乳化、混合、均质等。该泵相比较传统生产工艺更加简单方便和优化，提高了生产效率、提升了被处理物料的质量。主要应用于，食品、饮料、制药、保健、精细化工、涂料、农药、日化洗涤、造纸等各种工业领域。

JZ1 series is emulsifying homogenizing pump that could be operated for continuous production, and is composed of stator and rotor. The processed media will be operated through 6-10 layers stators and rotors, and then be dispersed, cut, refined, smashed, emulsified, mixed etc. step by step. Compared with traditional manufacturing technique, this pump is more easier, convenient and optimized, which has improved production efficiency and promoted media quality. It's mainly used in the industry of food, beverage, pharmacy, health protection, fine chemistry, coating, pesticide, daily chemical, papermaking, etc.

技术参数 Technical Specifications

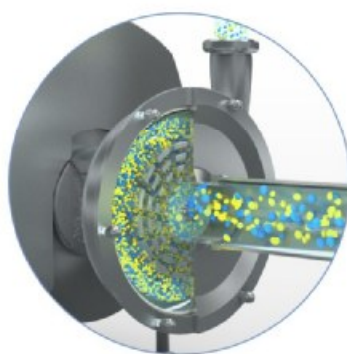
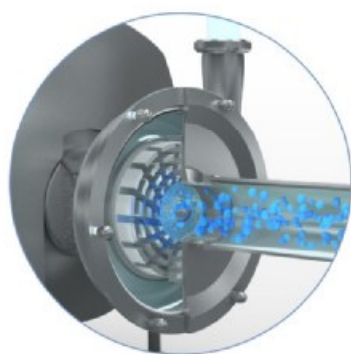
最大流量 Max flow rate	40m ³ /h
最大功率 Max power	45KW
最高温度 Max temperature	-20℃ to 140℃
物料细化 Media refinement	≤ 60 GRIT (≈ 300 μm) ≤ 60目(约300 μm)
材质 Material	304 /316L, 1.431/1.4404, ASME BPE 316L, 1.4435 NB2 Fe≤0.5%
表面处理 Surface treatment	≤ Ra0.8 μm, ≤ Ra0.6 μm, ≤ Ra0.4 μm
机封 Mechanical seal	单机封和双机封 Single and double mechanical seals
机封组合 Mechanical seal combination	详见配置表 See configuration table
进/出口连接 Inlet/Outlet connection	螺纹、卡箍、法兰、无菌法兰 Thread, clamp, flange, Aseptic flange
认证 Certification	3-A-Q2-11(N.O. 1579); MD/06/42-EC (N.O.70521616101-00); FDA 177.2600; USP CLASS-II; EG/VO1935/2004;

DJ-JZ1 系列单级乳化均质泵

DJ-JZ1 series single stage emulsifying homogenizing pump



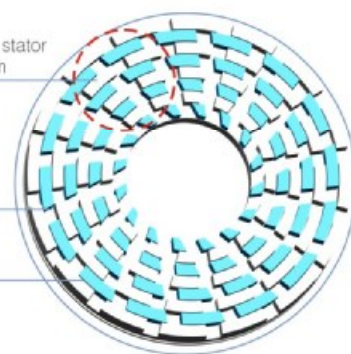
非常简单的维护、
无需专用工具、专业人员
Very simple maintenance,
no special tools required, no
professionals required



定子和转子之间的
间隙0.5mm
The gap between the stator
and the rotor is 0.5mm

定子 Stator

转子 Rotor



技术优势

- 维护拆卸和安装时，无需专业人员和专用工具，即可完成。
- 初始使用安装调试时，即使出现短暂反向旋转也不会损坏。
- 叶轮和轴之间是通过键槽连接固定，叶轮和机封动环之间是通过销钉固定，机封静环和泵体之间是通过异形法兰固定。
- 兼容单机封和双机封，只需要更换机封即可实现。

Technical Advantages

- Maintenance disassembly and installation can be completed without professional staff and special tools.
- Initial use of installation debugging, even if a short reverse rotation will not be damaged.
- Impeller and shaft are connected by keyway; impeller and mechanical seal rotating ring are connected by pin; mechanical seal static ring and pump body are connected by special-shaped flange.
- Compatible with single and double machine seal, only need to change machine seal.

DJ-JZ1 系列乳化均质泵不同的接口

DJ-JZ1 series emulsifying homogenizing pump connection



手轮螺母
Hand wheel nut



由任螺母
Union nut inlet / outlet



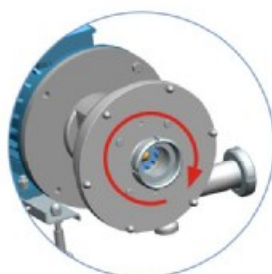
螺纹接口
Threaded inlet / outlet



卡箍连接
Clamp inlet/outlet



无菌法兰(DIN 11864)进/出口
Aseptic Flange (DIN 11864)
Inlet/Outlet



90° ...0° 倾斜出口
90° ...0° inclined outlet



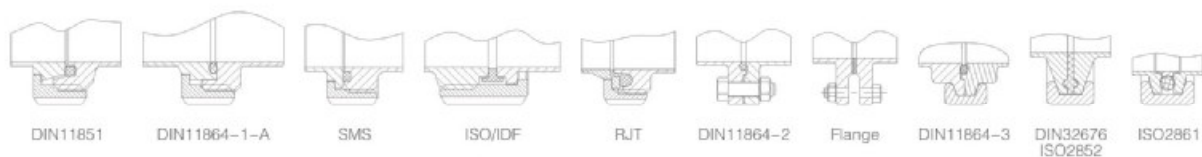
90° ...135° 倾斜出口
90° ...135° inclined outlet

泵进口/出口连接标准

连接方式：螺纹 卡箍 法兰 无菌法兰 KF等。
标准：DIN SMS ISO IDF RJT ASME BPE 3A I-line

Pump Inlet/outlet Connection Standard

Connection: Thread, Clamp, Flange, Aseptic flange, KF etc.
Standard: DIN SMS ISO IDF RJT ASME BPE 3A I-line



DJ-JZ1 系列乳化均质泵不同的接口

DJ-JZ1 series emulsifying homogenizing pump connection



典型应用行业 Typical applications



食品饮料 Food & beverage

果汁、果酱、冰淇淋、乳制品、食品添加剂、茶饮料、巧克力、豆奶、香精、乳制品。

Juice, jam, ice cream, dairy products, food additives, tea drinks, chocolate, soymilk, essence.



日用化工 Daily chemical

液体洗涤剂、洗手液、洗面乳、硅油乳化、日用香精、护肤品、化妆品。

Liquid detergent, liquid soap, facial cleanser, emulsified silicone oil, fragrance compound, skin care product, cosmetics.



生物制药 Bio-pharmaceutical

注射剂、抗生素、药乳液、药乳膏、保健品、微胶囊乳化、细胞组织破碎等。

Injection, antibiotic, medicine emulsion, medicine emulsifiable paste, health care products, microcapsule emulsification, cell tissue smash etc.



造纸 Papermaking

纸浆、填料、干强剂、湿强剂、施胶剂、助留助滤剂、消泡剂、涂布、水处理化学品等。

Paper pulp, padding, dry strength agent, wet strength agent, sizing agent, retention and drainage aid, antifoaming agents, coating, water treatment chemicals etc.



石油化工 Petrochemical industry

润滑油、重油乳化、柴油乳化、改性沥青、催化剂、蜡乳剂等各种工业石油化工所需均质和乳化的介质。

Lubricant, heavy oil emulsification, diesel oil emulsification, modified asphalt, catalyzer, wax emulsion etc. Which media need to be emulsified and homogenized.



精细化工 Fine chemical engineering

颜料、染料、塑料助剂、纺织助剂、胶粘剂、树脂乳化、热熔胶、密封胶、胶水、浆料、整理剂、表面活性剂、均染剂、炭黑分散、防粘剂、织物整理剂、光亮剂、皮革助剂、颜料膏等各种化工类所需的乳化和均质及混合物料等。

Pigment, dyestuff, plastic additive, textile assistant, adhesive, resin emulsification, hot melt adhesive, sealant, glue, sizing agent, finishing agent, surfactant, dye leveller, carbon black dispersion, anti-sticking agent, textile finishing agent, brightener, leather auxiliaries, pigment paste etc. Which media need to be emulsified and homogenized.



涂料和油墨 Coating & ink

印刷油墨、油漆、乳胶漆、涂料、纳米涂料、光固化涂料、涂料助剂、炭黑分散、釉、膨润土等。

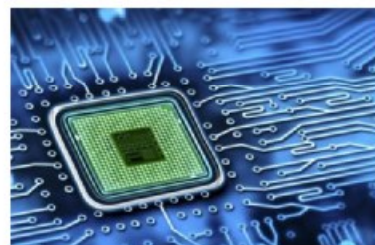
Printing ink, oil paint, emulsion paint, coating, nano-paint, photocurable coating, coating adhesive, carbon black dispersion, glaze, bentonite etc.



农药 Pesticide

杀虫剂、除草剂、农药乳油、肥料、农药助剂等各种农药所需乳化和均质混合的介质。

Insecticide, herbicide, pesticide emulsion, fertilizer, inert ingredient etc which media need to be emulsified and homogenized.



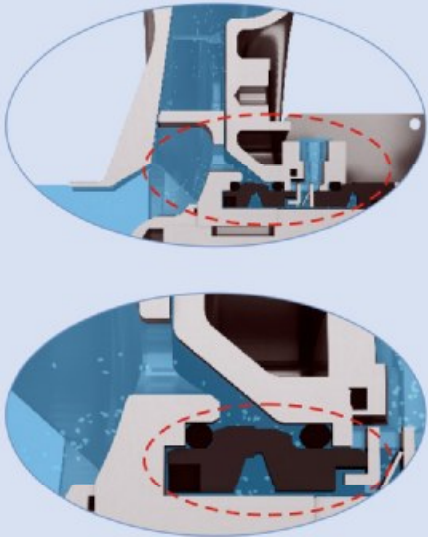
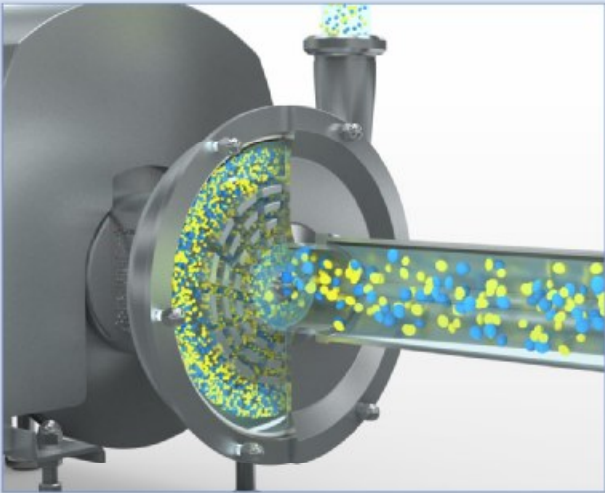
半导体 Semiconductor

纳米材质分散、解聚等。

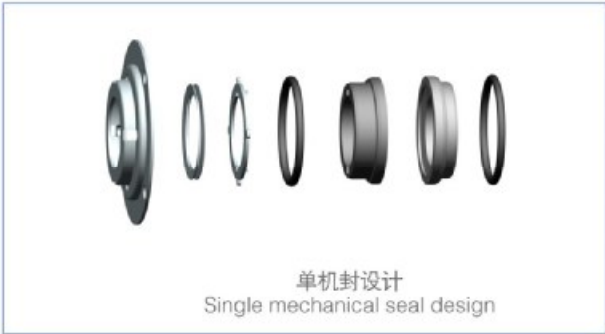
Dispersion & depolymerization of nanometer materials etc.

DJ-JZ1 系列乳化均质泵机封设计

DJ-JZ1 series emulsifying homogenizing pump mechanical seal design



双机封设计
Double mechanical seal design



单机封设计
Single mechanical seal design

机封系统

DONJOY DJ-JZ1 系列乳化均质泵机封，联合欧洲瑞典著名公司合作研发，机封设计具有压力平衡设计、超长使用寿命、极易拆装维护、无需特殊专用工具，卫生洁净符合和认证：欧盟 EHEDG，美国 3-A-02-11，FDA1772600 等高洁净要求。并有丰富的机封配置方案。

Mechanical Seal Features

Donjoy DJ-JZ1 series emulsifying homogenizing pump mechanical seal is researched and developed together with European Swedish famous company. The mechanical seal is designed with pressure balance and super long working life, can be disassembled and maintained easily without special tools. The sanitary purity is according to EU EHEDG, USA 3-A-02-11, FDA1772600 and so on. and has lots of configuration.

机封配置 Mechanical Seal Configuration

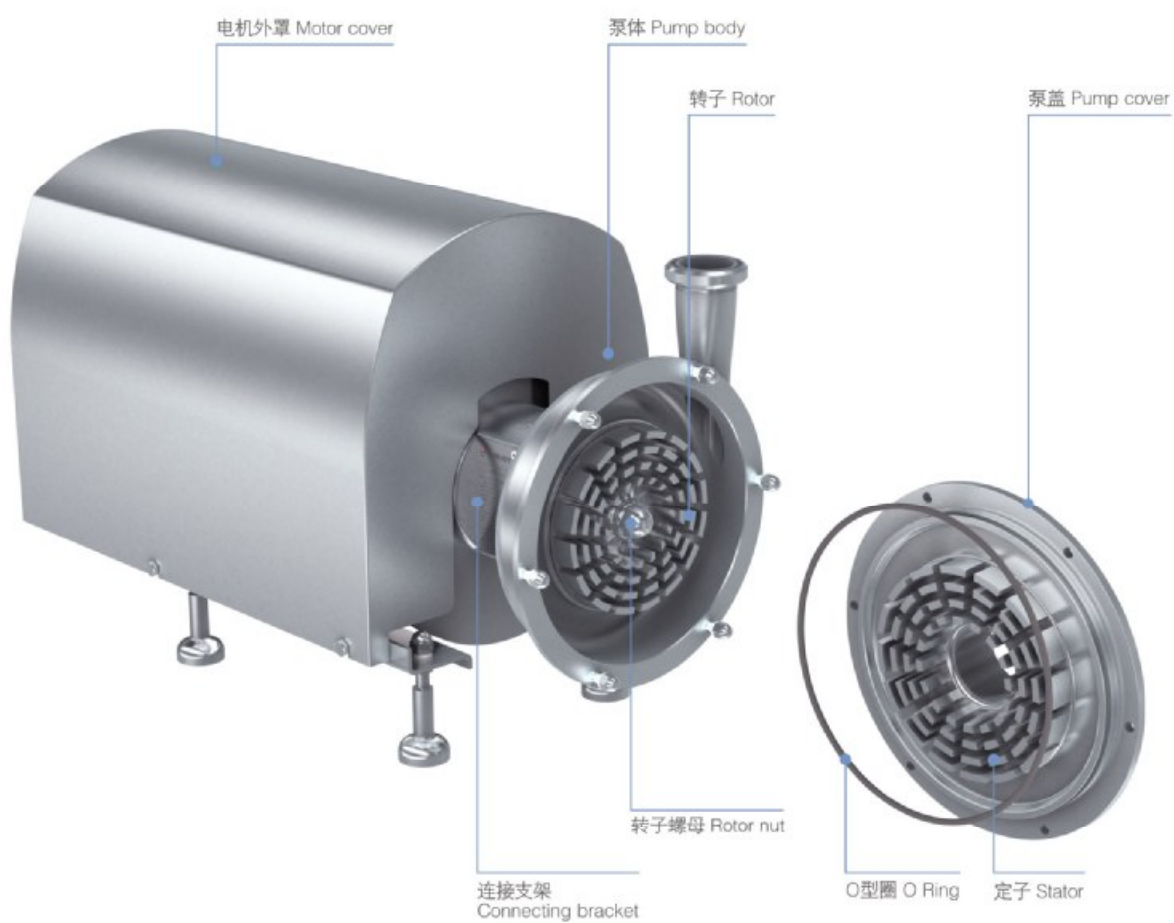
1)SIC/C/EPDM	标准配置Standard
2)SIC/C/FKM	
3)SIC/C/HNBR	选型配置Optional
4)SIC/SIC/EPDM	
5)SIC/SIC/FKM	
6)SIC/SIC/HNBR	
7)TC/TC/EPDM	
8)TC/TC/FKM	
9)TC/TC/HNBR	

注意：以上配置适用于单机封和双机封。
Note: Above configurations is suitable for single and double mechanical seal

DJ-JZ1 系列单级乳化均质泵

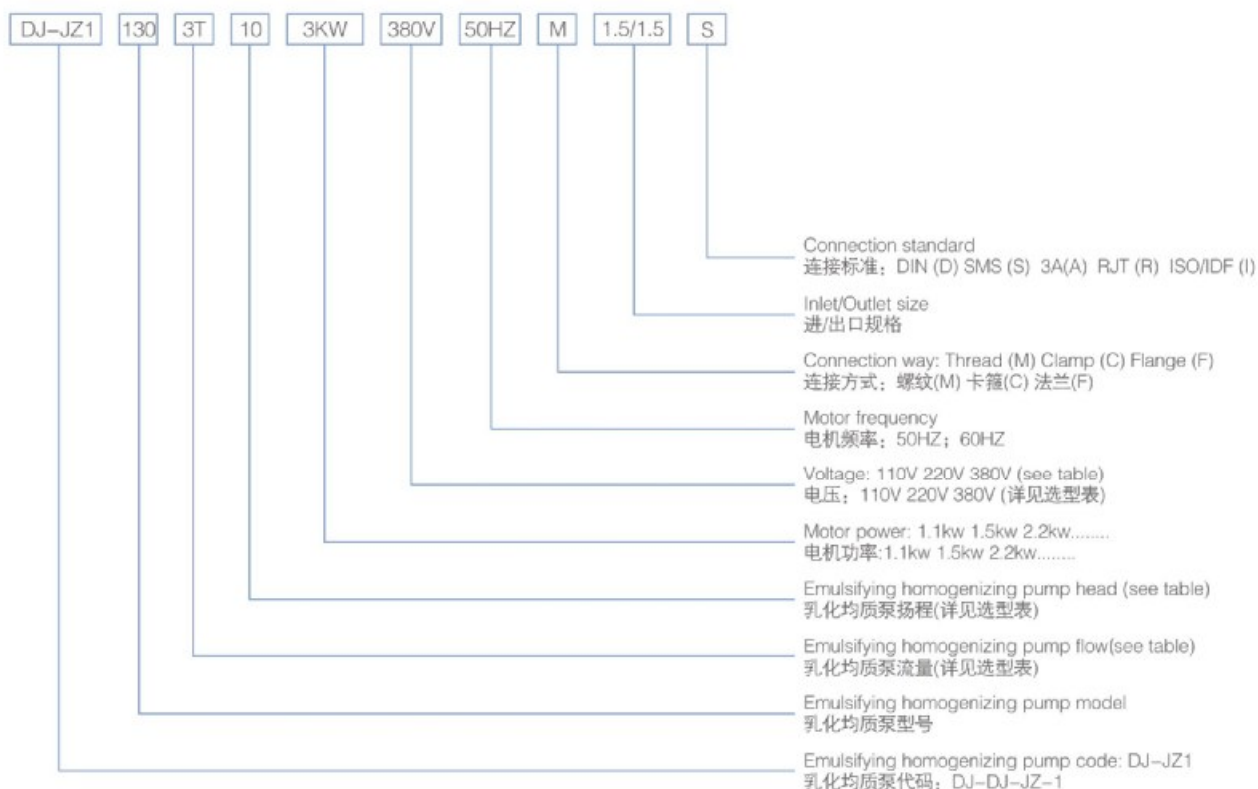
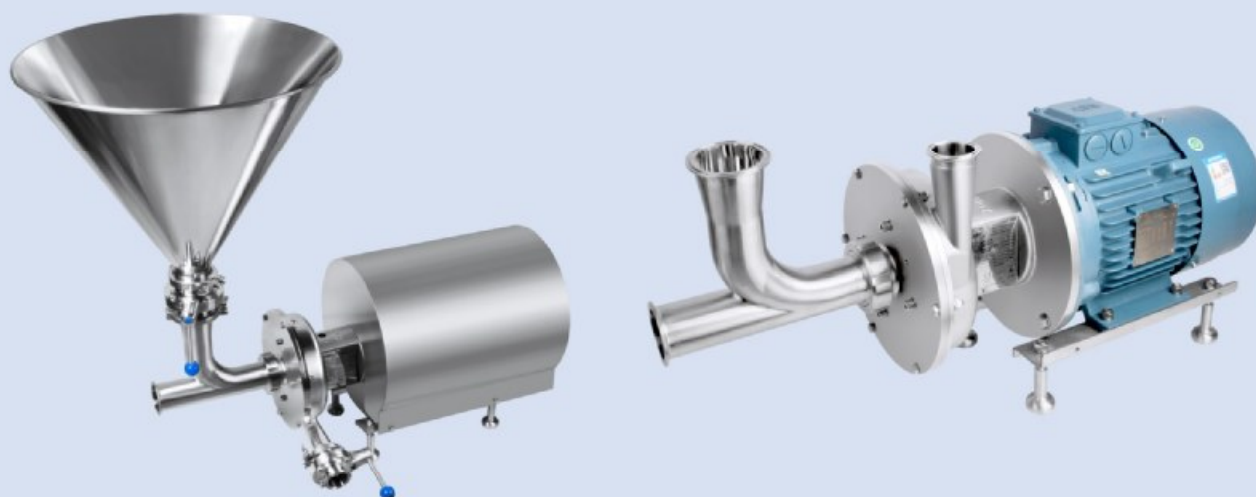
DJ-JZ1 series single stage emulsifying homogenizing pump

非常简单的维护、
无需专用工具、专业人员
Very simple maintenance,
no special tools required, no
professionals required



DJ-JZ1 乳化均质泵型号说明

DJ-JZ1 Emulsifying homogenizing pump model instruction



For example:
举例: DJ-JZ1-130-3T-10-3KW-380V-50HZ-M-1.5*/1.5"-S

单级乳化均质泵选型表

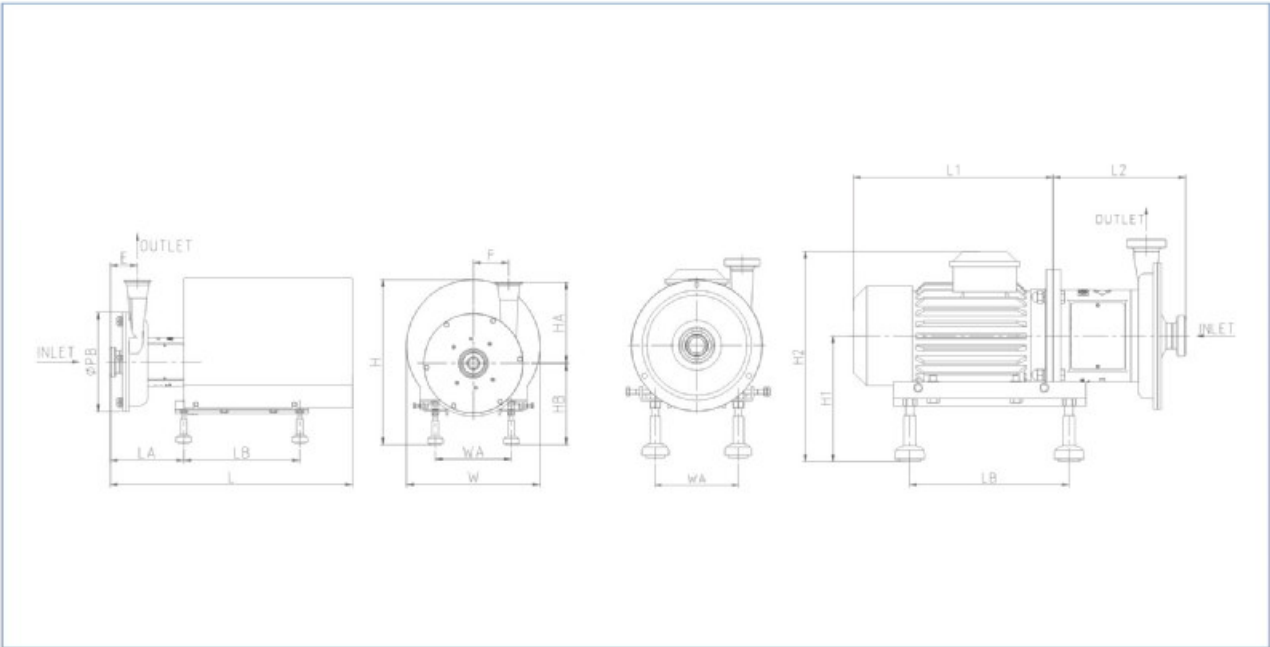
Single stage emulsifying homogenizing pump selection table



型号 Model	功率 Power(kw)	流量 Flow(m³/h)	出口压力 Outlet pressure (bar)	转速 Rotate speed (r/min)	进/出口 Inlet/Outlet	重量 Weight (kg)
DJ-JZ1-130	3.0	3.0	1.0	2900	1.5"/1.5"	52.0
	4.0		1.0	2900		58.0
	5.5		1.0	2900		74.0
DJ-JZ1-150	4.0	6.0	1.5	2900	2"/1.5"	66.0
	5.5		1.5	2900		82.0
	7.5		1.5	2900		93.0
DJ-JZ1-170	5.5	10.0	1.5	2900	2.5"/2"	91.0
	7.5		1.5	2900		102.0
	11.0		1.5	2900		144.0
DJ-JZ1-190	7.5	15.0	1.5	2900	2.5"/2"	107.0
	11.0		1.5	2900		149.0
	15.0		1.5	2900		164.0
DJ-JZ1-210	11.0	25.0	1.5	2900	3"/2.5"	166.6
	15.0		1.5	2900		181.6
	18.5		1.5	2900		211.6
DJ-JZ1-240	15.0	40.0	1.5	2900	3"/2.5"	167.0
	18.5		1.5	2900		182.0
	22.0		1.5	2900		212.0

单级乳化均质泵数据表

Single stage emulsifying homogenizing pump data sheet



型号 Model	功率 Power (kw)	进口 Inlet	出口 Outlet	Φ PB	F	LB	H	HB	HC	W	WA	L1	H2	SMS 螺纹连接				INCH 卡箍连接				DIN 螺纹连接			
														Thread				Clamp				Thread			
														E	LA	HA	L	E	LA	HA	L	E	LA	HA	L
DJ-JZ1-130	3.0KW	1.5"	1.5"	220	76.5	300	413	218	94.8	320	160	316	338.8	59	158	146	583	52	150	139	576	59	158	146	583
	4.0KW			220	76.5	300	421	210	94.8	340	190	351	350.8	59	165	146	584	52	157	139	577	59	165	146	584
	5.5KW			220	76.5	330	466	231	94.8	380	216	399	399.8	59	174	146	654	52	166	139	647	59	174	146	654
DJ-JZ1-150	4.0 KW	2"	1.5"	266	98	300	421	210	94.8	340	190	351	350.8	66	164	160	584	59	156	153	577	67	164.5	160	585
	5.5-7.5KW			266	98	330	466	231	94.8	380	216	399	399.8	66	173	160	654	59	165	153	647	67	173.5	160	655
DJ-JZ1-170	5.5-7.5 KW	2.5"	2"	282	100.5	330	466	231	94.8	380	216	399	399.8	77.5	210	200	689	66	199	193	677	76.5	209	201	688
	11KW			282	100.5	450	551	260	94.8	470	254	576.5	511.8	77.5	193	200	767	66	181	193	755	76.5	191.5	201	766
DJ-JZ1-190	7.5 KW	2.5"	2"	328	127.5	330	466	231	94.8	380	216	399	399.8	72.5	207	210	686	61	196	203	674	71.5	206	210	685
	11-15KW			328	127.5	450	551	260	94.8	470	254	576.5	511.8	72.5	190	210	764	61	178	203	752	71.5	188.5	210	763
DJ-JZ1-210	11-15 KW	3"	2.5"	360	141	450	551	260	94.8	470	254	576.5	512.8	74.5	227	235	801	63	215	223	789	73.5	225.5	235	800
	18.5KW			360	141	450	551	260	94.8	470	254	576.5	512.8	74.5	227	235	801	63	215	223	789	73.5	225.5	235	800
DJ-JZ1-240	15-18.5KW	3"	2.5"	360	141	450	551	260	94.8	470	254	576.5	512.8	74.5	227	235	801	63	215	223	789	73.5	225.5	235	800
	22KW			360	141	515	583	281	94.8	510	279	573	533.8	74.5	227	235	896	63	215	223	884	73.5	225.5	235	895

注意：以上数据图相关尺寸不作为实物最终依据，东正保留对于数据更新权限不再另行通知。
Note: The relevant dimensions of the above data diagrams are not regarded as the final basis of the actual object.
DONJOY keep the right to update the data without further notice.