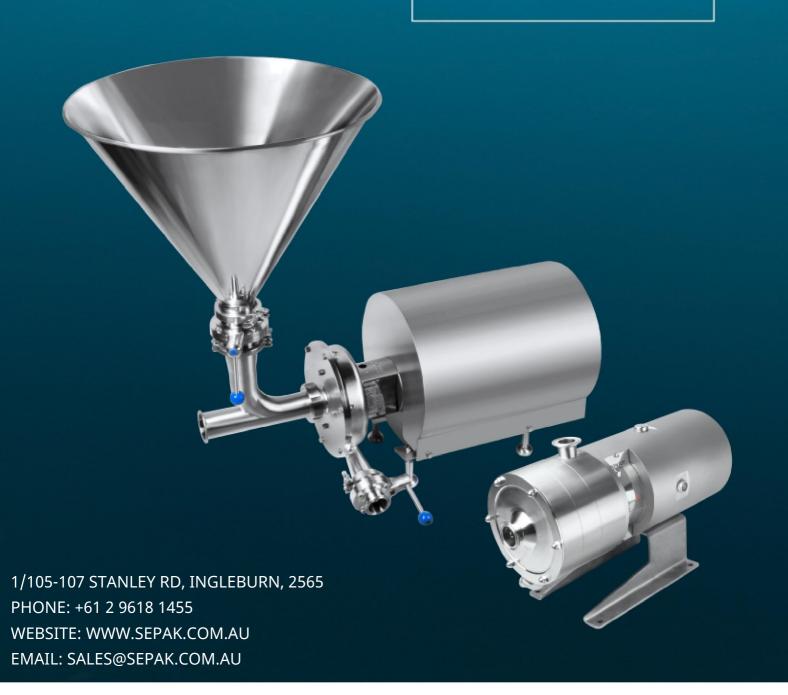




Emulsifying homogenizing pump series



JZ1 series single stage emulsifying homogenizing pump



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

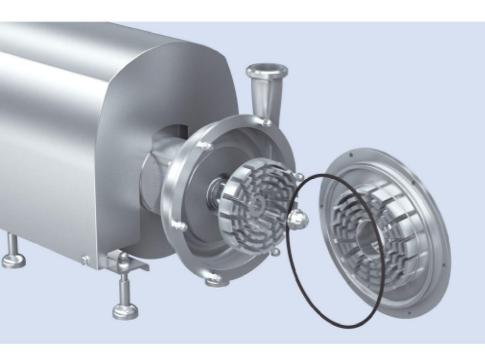


JZ1 series is emulsifying homogenizing pump that could be operated for continuous production, and is composed of stator and rotor. The processed media will be operated through 6–10 layers stators and rotors, and then be dispersed, cut, refined, smashed, emulsified, mixed etc. step by step. Compared with 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.

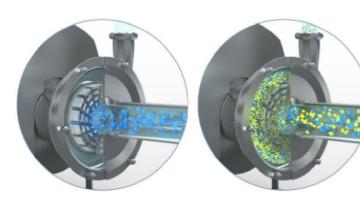
Technical Specifications

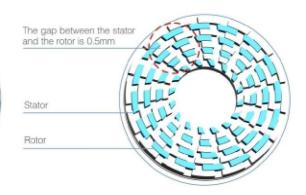
Max flow rate	40m/h
Max power	45KW
Max temperature	−20°C to 140°C
Media refinement	< 60 GRIT (~ 300 μm) <60目(±300 μm)
Material	304/316L,1.431/1.4404,ASME BPE 316L,1.4435 NB2 Fe≤0.5%
Surface treatment	≤ RaO.8μm, ≤ RaO.6μm, ≤ RaO.4μm
Mechanical seal	Single and double mechanical seals
Mechanical seal combination	See configuration table
Inlet/Outlet connection	Thread, clamp, flange, Aseptic flange
Certification	3-A-02-11(N.O.1579); MD)06/42-EC (N.O.70521616101-00); FDA 177.2600; USP CLASS-II; EG/VO1835/2004;

JZ1 series single stage emulsifying homogenizing pump



Very simple maintenance, no special tools required, no professionals required





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.

JZ1 series emulsifying homogenizing pump connection



Hand wheel nut



Union nut inlet / outlet



Threaded inlet / outlet



Clamp inlet/outlet



Aseptic Flange (DIN 11864) Inlet/Outlet



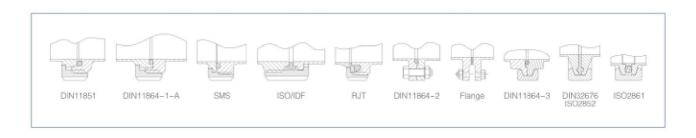
90°0° inclined outlet



90°135° inclined outlet

Pump Inlet/outlet Connection Standard

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



JZ1 series emulsifying homogenizing pump connection





Typical applications



Food & beverage

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



Daily chemical

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



Bio-pharmaceutical

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



Papermaking

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



Petrochemical industry

Lubricant, heavy oil emulsfication, diesel oil emuisfication, modified asphalt, catalyzer, wax emuision etc. Which media need to be emulsified and homogenized.



Fine chemical engineering

Pigment, dyestuff, plastic additive, textile assistant, adhesive, resin emulalification, hot melt adhesive, sealant, glue, sizing agent, finishing agent, surfactant, dye leveler, carbon black dispersion, anti-sticking agent, textile finishing agent, brighterer, leather auxiliance, pigment passe etc. Which media need to be emulathed and homogenized.



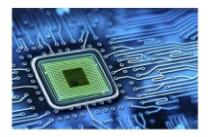
Coating & ink

Printing ink, oil paint, emulsion paint, coating, nanopaint, photocureable coating, coating abhesive, carbon black dispersion, glaze, bentonite etc.



Pesticide

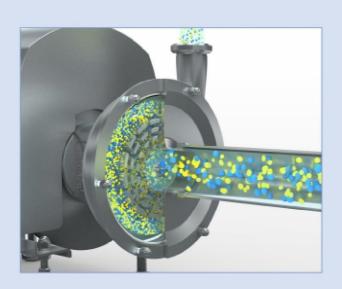
Insecticide, herbicide, pesticide missible oil, fertilizer, inert ingredient etc which media need to be emulsified and homogenized.

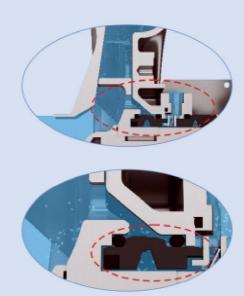


Semiconductor

Dispersion & depolymerization of nanometer materials etc.

JZ1 series emulsifying homogenizing pump mechanical seal design







Mechanical Seal Features

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.



Mechanical Seal Configuration

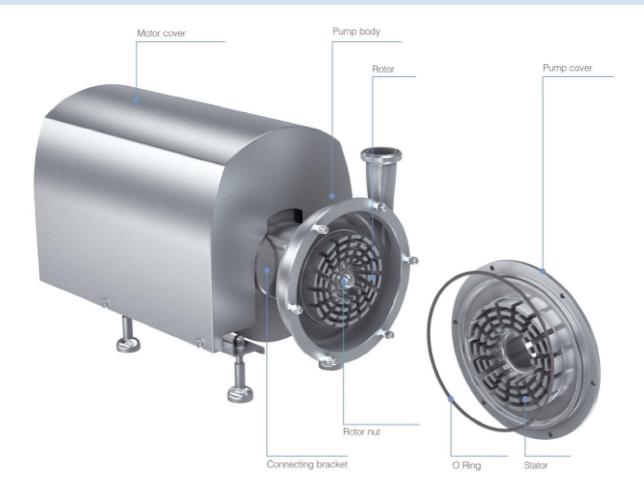
Standard
Optional

Note: Above configurations is suitable for single and double mechanical seal

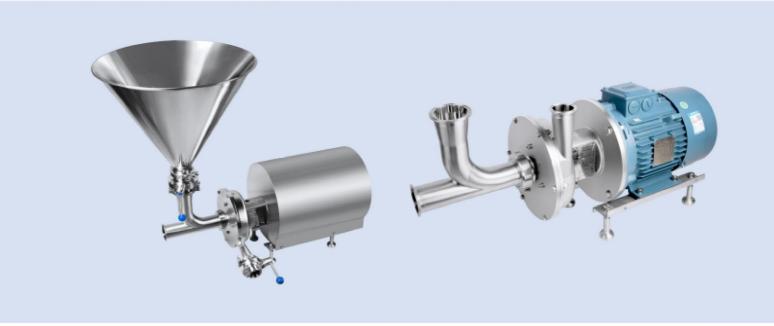
JZ1 series single stage emulsifying homogenizing pump

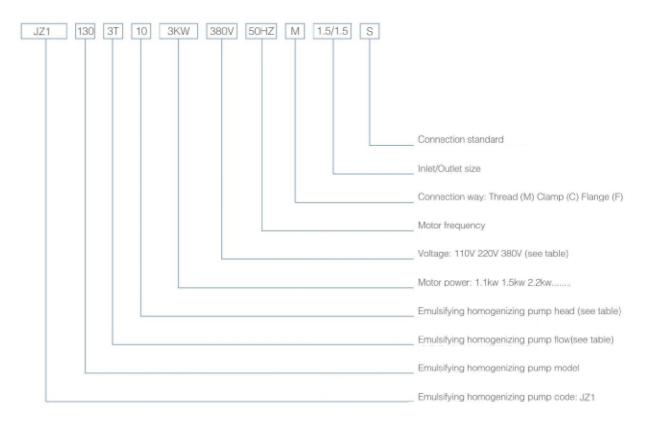
Very simple maintenance, no special tools required, no professionals required





JZ1 Emulsifying homogenizing pump model instruction





For example: JZ1-130-3T-10-3KW-380V-50HZ-M-1.5'/1.5'-S

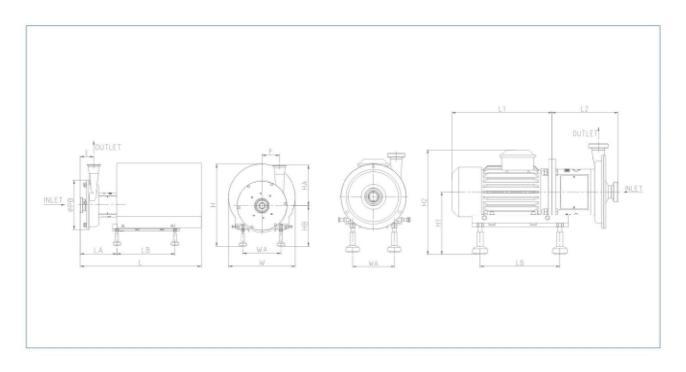
Single stage emulsifying homogenizing pump selection table





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

Single stage emulsifying homogenizing pump data sheet



												VA L1			SN	/IS			INCH		hade //	DIN											
	Power (kw)	Inlet	Outlet	PB	F	LB	Н	HB I	HC	HC W	/ WA		H2	Thread				Clamp				Thread											
	(KW)		100,700,000	2000										Ε	LA	НА	L	Ε	LA	НА	L	Е	LA	НА	L								
	3.0KW			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								
JZ1-130	4.0KW	1.5"	1.5"	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								
171. 150	4.0 KW	2"		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		1.5"	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								
174 470	5.5-7.5 KW		0.5	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								
JZ1-170	11KW	2.5	2"	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								
174 100	7.5 KW			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								
JZ1-190	11-15KW	2.5"	2"	328	127.5	450	551	260	94.8	470	254	576.5	511.8	72.5	190	210	764	61	17B	203	752	71.5	188.5	210	763								
	11-15 KW	3"	3"		3"	3"						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
JZ1-210	JZ1-210 18.5KW							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			
174 010	15-18.5KW		0.50	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								
JZ1-240	22KW	3"	2.5"	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								

JZ3 series multi-stage emulsifying homogenizing pump

High-efficiency, dispersion, cut, refinement, smash, emulsification, mixing, homogenization, high purity solution



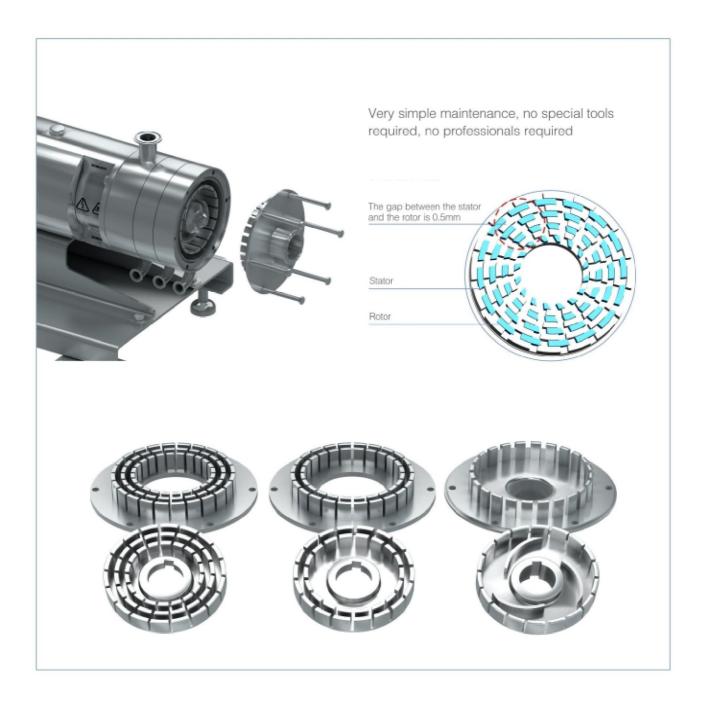


Jz3 series is online continuity production emulsification homogeneous pump, and is composed by stators and rotors, processed materials will be stepwise dispersed, sheared, refined, crushed, emulsified, mixed and homogenized through three grades twelve—tier stators and rotors, and then be dispersed, cut, 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.

Technical Specifications

Max flow rate	50m/h
Max power	90KW
Max temperature	-20°C to 140°C
Media refinement	< 100 GRIT (~ 200 μ m) <100 ⊞mesh (≸9about 200 μ m)
Material	304 /316L,1.431/1.4404,ASME BPE 316L,1.4435 NB2 Fe≤0.5%
Surface treatment	≤ Ra0.8μm, ≤ Ra0.6μm, ≤ Ra0.4μm
Mechanical seal	Single and double mechanical seals
Mechanical seal combination	See configuration table
Inlet/outlet connection	Thread, clamp, flange, Aseptic flange
Certification	3-A-02-10(N.O.1579); MD/06/42-EC (N.O.70521616101-00); FDA 177.2600; USP CLASS-II; EG/VO1935/2004;

JZ3 series multi-stage emulsifying homogenizing pump



Technical Advantages

- Maintenance disassembly and installation can be completed without professional staff and special tools.
- Initial use of installation debugging, the motor will not be damaged even if after a short reverse rotation.
- •The impeller and shaft are connected by the key groove.

JZ3 series multistage emulsifying homogenizing pump working schematic diagram







Bottom drain valve



Single-stage discharge or sampling



All discharge or sampling



First stage stators and rotors



Second stage stators and rotors



Thrid stage stators and rotors

Typical applications



Food & beverage

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



Daily chemical

Liquid detergent, liquid soap, facial cleanser, emusified silicone oil, fragrance compound, skin care product, cosmellos.



Bio-pharmaceutical

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



Papermaking

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



Petrochemical industry

Lubricant, heavy oil emulsfication, diesel oil emuisification, modified asphalt, catalyzer, wax emuision etc. homogeneous and emulsified media required for various industrial petrochemical.



Fine chemical engineering

Pigment, dyestuff, plastic additive, textile assistant, adhesive, resin emulsification, hot melt adhesive, sealant, glue, string agent, finishing agent, surfactant, dye leveler, carbon black dispersion, anti-sticking agent, tertile finishing agent, brightener, isather auxiliaries, pigment paste, and emulsifying, homogenizing and mixing materials for various chemical includings.



Coating & ink

Printing ink, oil paint, emulsion paint, coating, nanopaint, photocureable coeting, coating abhasive, carbon black dispersion, glaze, bentonite etc.



Pesticide

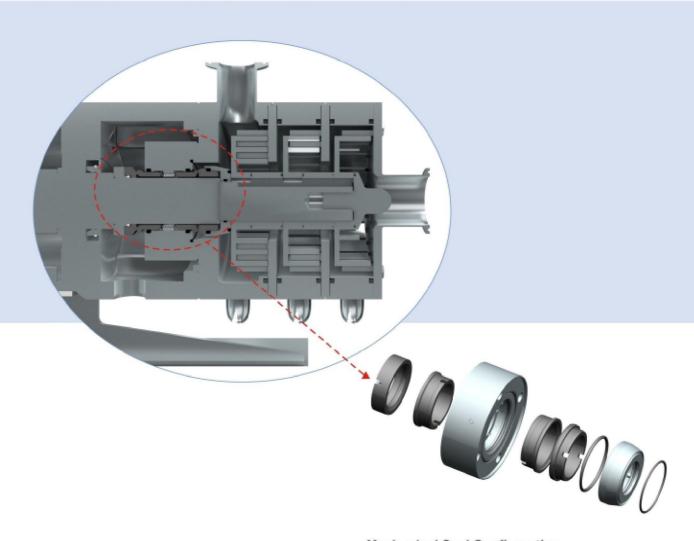
Agricultural medicine: medium for emulsification and homogenization of various pesticides such as insecticide squeezing, herbicide, pesticide emulsifiable concentrate, fertilizer and pesticide auxiliaries.



Semiconductor

Dispersion & depolymerization of nanometer materials etc.

JZ3 Series multistage emulsifying homogenizing pump mechanical seal design



Mechanical Seal System

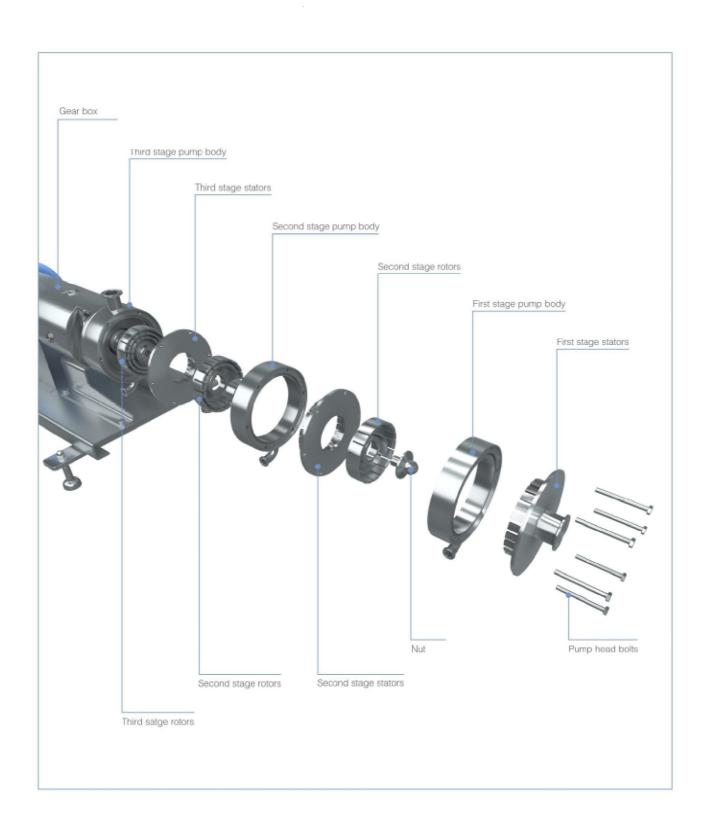
JZ3 series multi-stage homogenizing pump mechanical seal is researched and developed together with European Swedish famous company. The mechanical seal is designed with pressure balance and super long working life, can be disassembled and maintained easily without special tools. The sanitary purity is according to EU EHEDG, USA 3-A-02-11, FDA1772600 and so on, and has lots of configuration.

Mechanical Seal Configuration

1)SIC/C/EPDM	Standard
2)SIC/C/FKM	
3)SIC/C/HNBR	
4)SIC/SIC/EPDM	
5)SIC/SIC/FKM	Optional
6)SIC/SIC/HNBR	
7)TC/TC/EPDM	
8)TC/TC/FKM	
9)TC/TC/HNBR	

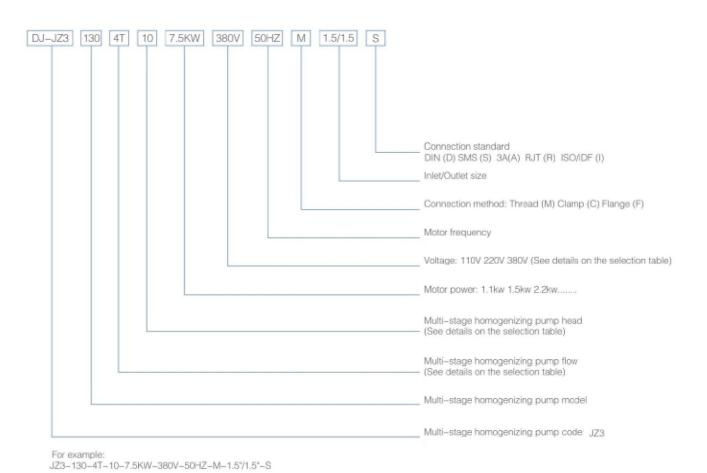
Note: The above configuration is suitable for double mechanical seal.

Multistage homogenizing pump spare parts component



JZ3 series multi stage emulsifying homogenizing pump model instruction





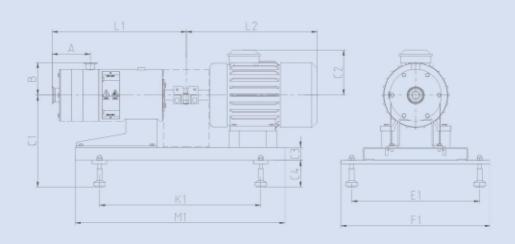
JZ3 series multi stage emulsifying homogenizing pump selection table





Model	Power(kw)	Flow(m³/h)	Outlet pressure (bar)	Rotate speed (r/min)	Inlet	Outlet	Weight (kg)
JZ3-130	7.5	4.0	1.0	2900	1.5'-DN40	1.5"-1.1/4"	139.5
023-130	11	4.0	2.0	2900	1.5 - 0140	1.5 - 1.1/4	183.5
JZ3-150	11	6.0	2.0	2900	2 *-DN50	1.5"-DN40	189.8
JE3-130	15	0.0	2.0	2300	2 -01400	1.5 -01440	202.8
JZ3-170	15	12.0	2.0	2900	2 *-25*	2"- DN50	237.2
323-170	18.5	12.0	4.0	2900	2 -23	2 - 0/450	245.2
JZ3-190	22	20.0	2.0	2900	3 *-DN65	2"-2.5"	298.9
J23-190	30	20.0	5.0	2900	3 -DIADD	2-2.5	346.9
170 010	45	20.0	2.0	0000	o F Pakino	o Et Divice	433
JZ3-210	55	30.0	5.0	2900	3 *-DN80	2.5"-DN65	494
177 040	75	50.0	2.0	2000	at Phiann	ar prins	806
JZ3-240	90	50.0	5.0	2900	4"-DN100	3"-DN80	846

JZ3 series multi stage emulsifying homogenizing pump installation size data sheet



Model	Power(kw)	Inlet	Outlet	C1	СЗ	C4	E1	F1	K1	M1	L1	L2	C2	A (*)	B (*)			
JZ3-130	7.5KW				451 44141	342	50	99	475	555	600	780	577	531	169	144	124	
JZ3-130	11KW	1.5"-DN40	1.5"=1.1/4"	342	50	99	475	555	600	780	577	597	253	144	124			
JZ3-150	11KW	2"-DN50	1.5'-DN40	334	50	99	475	555	600	780	540	597	253	177	139			
JZJ-150	15KW		1.5 -DIWIU	334	50	99	475	555	600	780	540	597	253	177	139			
JZ3-170	15KW	2"-2.5"	01 0 51	21 2 51	95 9 55	2"- DN50	377	50	99	545	625	920	1100	590	597	253	226	155
UZ3-1/U	18.5KW		2 - DN00	377	50	99	545	625	920	1100	590	597	253	226	155			
JZ3-190	22KW	or pales	3"-DN65	2'-2.5'	395	50	99	545	625	920	1100	647	693	254	283	169		
u2a-180	30KW	3 -DN03	2'-2.5'	396	50	99	545	625	920	1100	647	738	273	283	169			
JZ3-210	45KW	of Pikion	2.5"-DN65	415	50	99	545	625	920	1100	700	834	314	323	184			
UZ3-210	55KW	3"-DN80 2.	2.5 -DN05	415	50	99	545	625	920	1100	700	892	335	323	184			
JZ3-240	75KW	4"-DN100	3'-DN80	440	50	99	695	775	1420	1600	790	992	495	413	210			
uea=640	90KW	4-014100	3 - 1400	440	50	99	695	775	1420	1600	790	1062	495	413	210			

Note: The dimensions with (*A) and (*B) are based on the size of the clamp connection. Flange size will be different if use other connection, please contact us for details.

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