LSWm

-Submersible Sewage Pump

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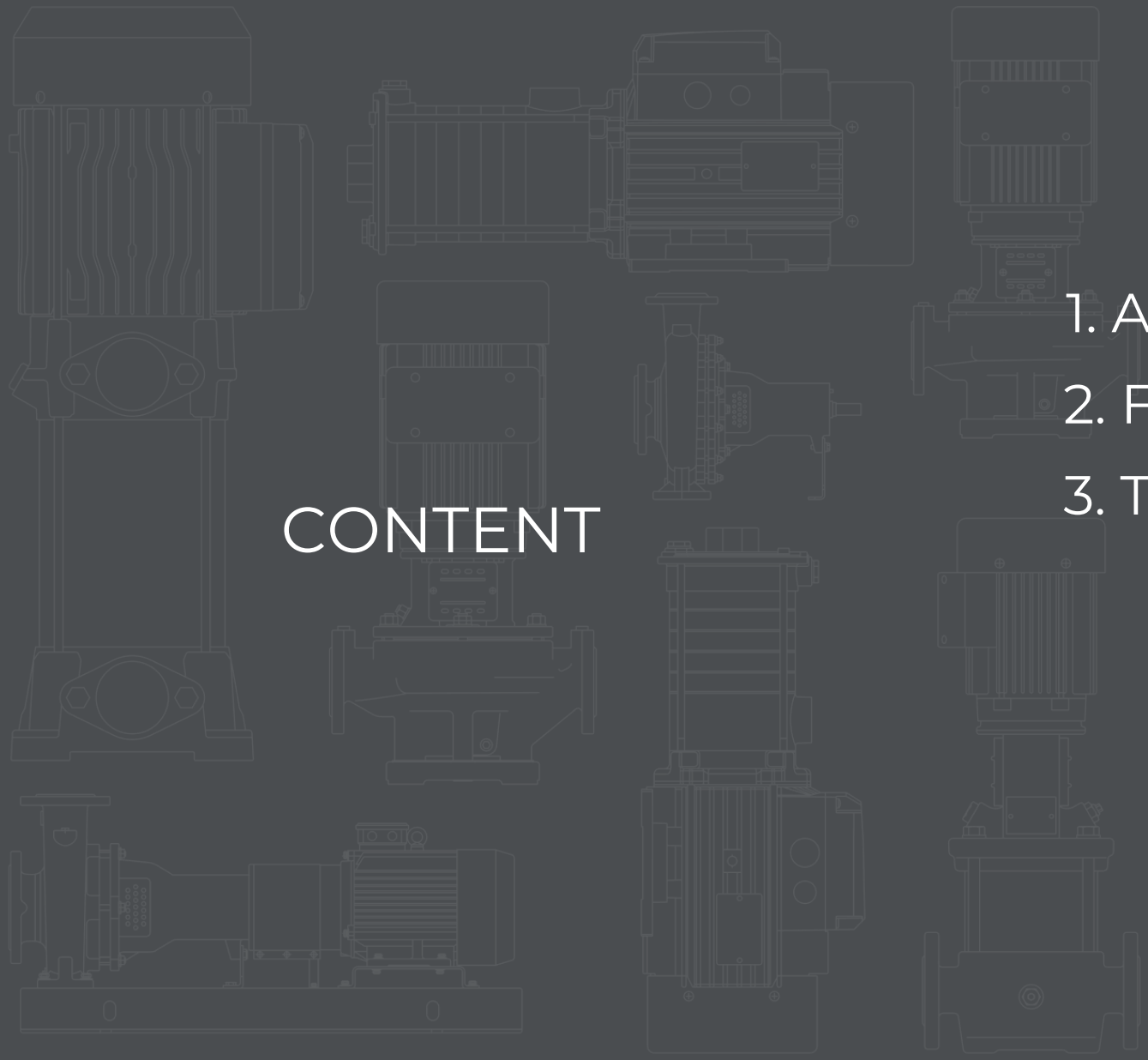
2024/4/15



CONTENT

PART 1

Application

1. Problem

➢ Are these problems bothering you?

Domestic sewage | City sewage | Manure wastewater | River wastewater

2. Application

Solve All Your Problems By One Pump

PART 2

Future

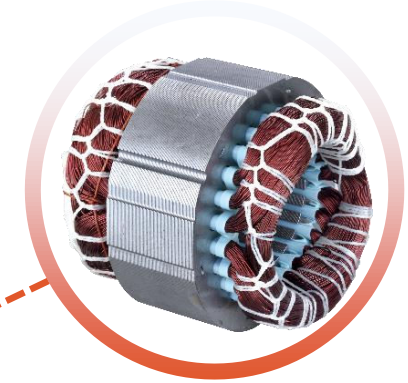
1. Pump body \ Motor—LSWm-A/XA/CA

AISI304 Handle

- Ergonomic handle, feel comfortable

AISI304 Shell

- Compact and beautiful, well-designed, rust-proof and durable



Copper winding motor

- High efficiency , strong power
- Cold rolled steel sheet, low temperature rise, long service life
- Standard thermal protector for single-phase motors
- Insulation class : F

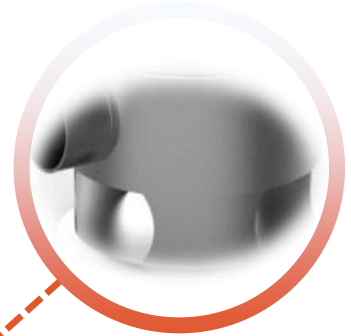
1. Pump body \ Motor—LSWm-SA

AISI304 Handle

- Ergonomic handle, feel comfortable

All stainless steel material

- The main parts are all stainless steel
- Corrosion resistant and durable



Stainless steel pump body

- More durable pump body
- More stable base structure design

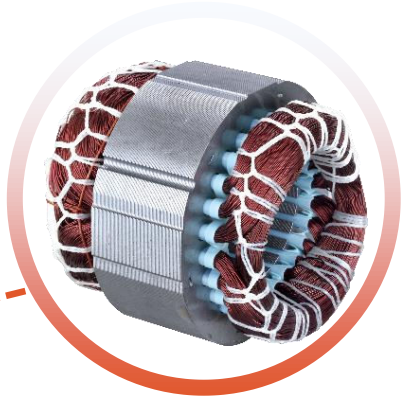
1. Pump body \ Motor —LSWm-SA

Stainless Steel Welded Shaft

- Stable operation and durable
- Moisture-proof and rust-proof

Double-sided mechanical seal

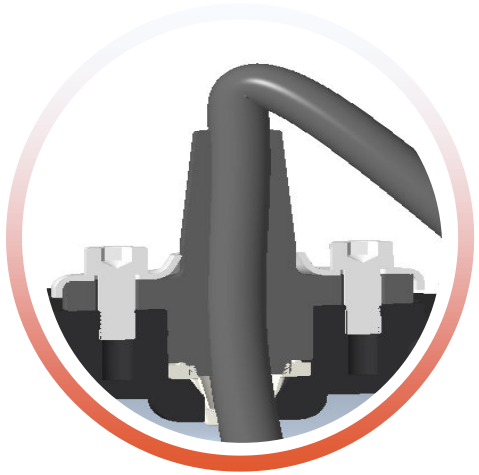
- Double-sided mechanical seal, safe and reliable
- Effectively protect the motor



Copper winding motor

- High efficiency , strong power
- Cold rolled steel sheet, low temperature rise, long service life
- Standard thermal protector for single-phase motors
- Insulation class : F
- Protection class : IPX8

2. Cable assembly



Fixed cable with unique design

- Better fixing effect, effectively prevent the cable from being pulled out
- Good waterproof

3. Connection structure

Unique connection structure

- The new connection design, secured by rivets and screws , more reliable

Anti-rust process

- Special anti-rust treatment on casting surface
- Wear and corrosion resistance

Exhaust valve design

- To prevent the pump from not venting water or less water due to the undischarged air in the pump

Stainless steel impeller

- Excellent passing performance
- Corrosion resistant and durable

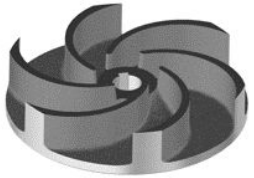
4. Cutting blade

LSWm-A

Two-channel impeller

- Efficient impeller design
- High pass ability

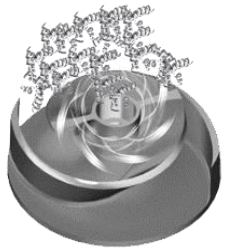
LSWm-XA



Semi-open vortex impeller

- Non-clogging
- Running smoothly

LSWm-CA



High efficiency spiral cutting impeller

- Powerful cutting

Fixed cutting blade

- High hardness，High wear resistance
- Prevent blockage and winding

- Two-channel impeller enables higher operational efficiency for pumps, while semi-open impeller offers better flow passage.

LEO PUMP

Intelligent Flow For Good

PART 3

Technical Data

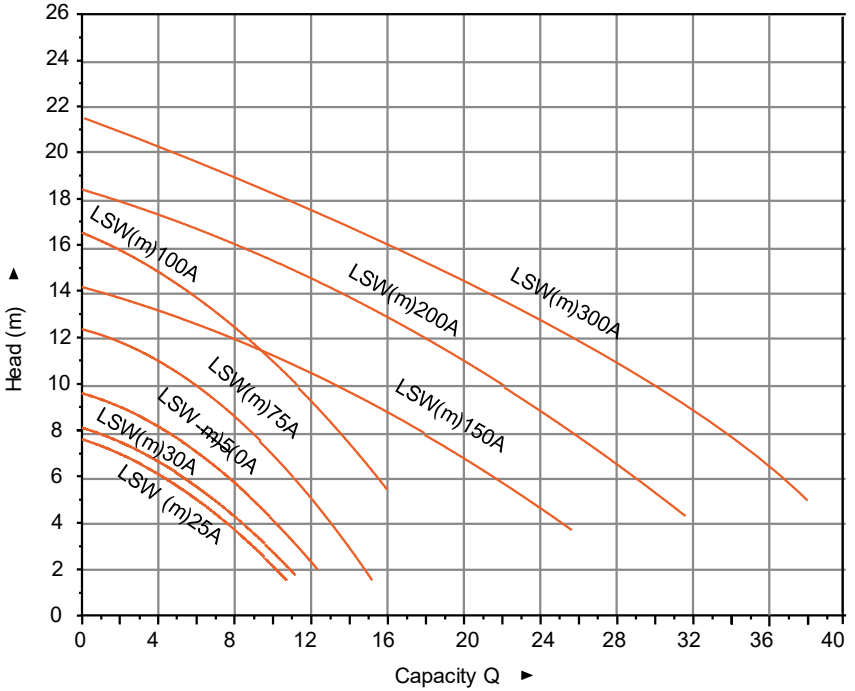
1. Identification Codes

LSW m 75 C A

- A: Automatic Operation with Float Switch
- C: Cutting Blade ; X: Semi-open Impeller ;
  No X and C : Double-channel impeller;
  S: Stainless steel pump body instead of cast iron
- 75: Power(HPX100)
- m: Single Phase Motor
  (Omitted for three-phase motor)
- LSW: Sewage Submersible Pump

2. Technical Data—LSWm-A

Model	Power		Voltage/ Frequency	Outlet	Q.Max	H.Max	Max.dia. of praticle
	Kw	HP	V/Hz		m^3/h	m	mm
LSWm25A	0.18	0.25	180-220/50	G1.5	11	8	15
LSWm30A	0.25	0.37	180-220/50	G1.5	12	9	15
LSWm50A	0.37	0.5	180-220/50	G1.5	13	11	20
LSWm75A	0.55	0.75	180-220/50	G2	16	13.5	25
LSWm100A	0.75	1.0	180-220/50	G2	19	17	25
LSWm150A	1.1	1.5	180-220/50	G2	26	13.5	30
LSWm200A	1.5	2.0	180-220/50	G2	32	19	30
LSWm300A	2.2	3.0	180-220/50	G2	34.5	23	30

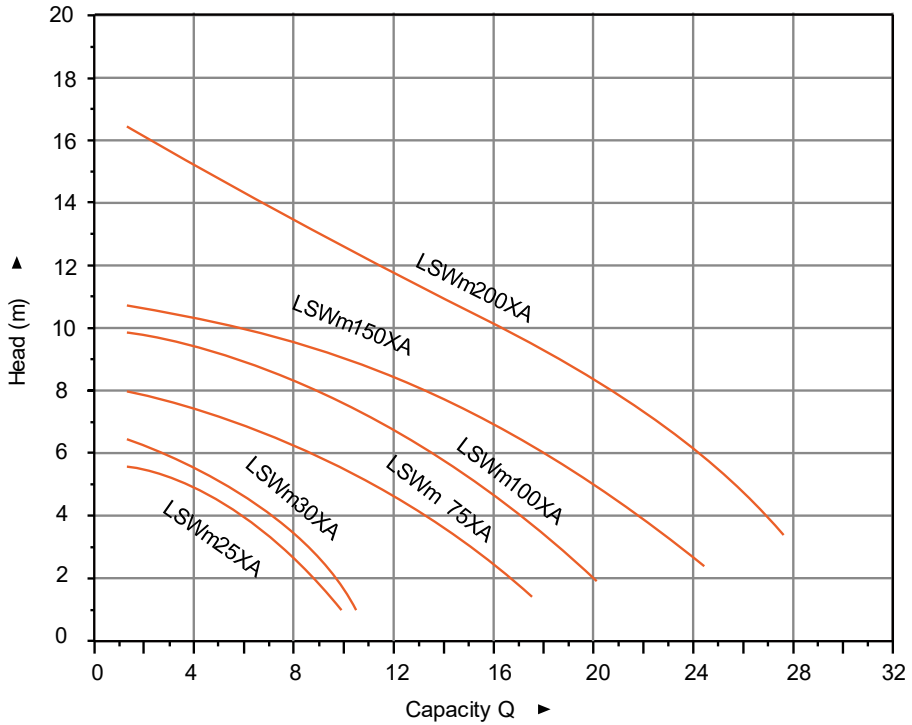


▶LSW m -A Se ries

- Insulation class : F
- Protection class : IPX8

2. Technical Data — LSWm-XA

Model	Power		Voltage/ Frequency	Outlet	Q.Max	H.Max	Max.dia. of praticle
	Kw	HP	V/Hz	mm	m³/h	m	mm
LSWm25XA	0.18	0.25	220/50	40	8	7	15
LSWm30XA	0.25	0.37	220/50	40	10	7.5	15
LSWm75XA	0.55	0.75	220/50	50	17	8.5	25
LSWm100XA	0.75	1.0	220/50	50	20	11	25
LSWm150XA	1.1	1.5	220/50	50	23	11.5	30
LSWm200XA	1.5	2.0	220/50	50	26.5	17	15

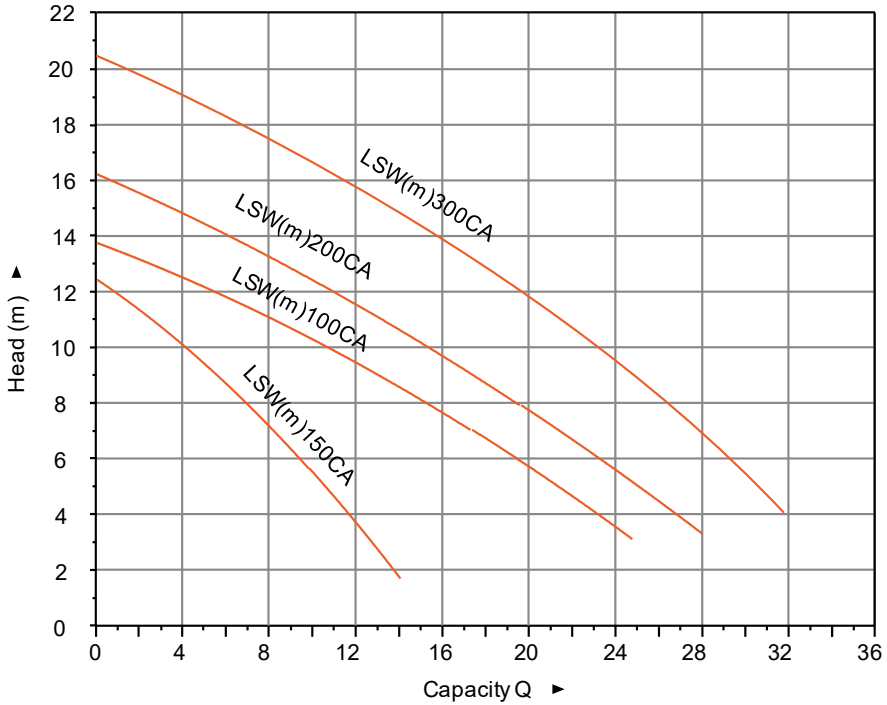


▶LSW m -XA Se ries

- Insulation class : F
- Protection class : IPX8

2. Technical Data — LSWm-CA

Model	Power		Voltage/ Frequency	Outlet	Q.Max	H.Max	Max.dia. of praticle
	Kw	HP	V/Hz		m³/h	m	mm
LSWm100CA	0.75	1.0	180-220/50	G2	15	13	/
LSWm150CA	1.1	1.5	180-220/50	G2	25	14	/
LSWm200CA	1.5	2.0	180-220/50	G2	30	17	/
LSWm300CA	2.2	3.0	180-220/50	G2	32	21.5	/

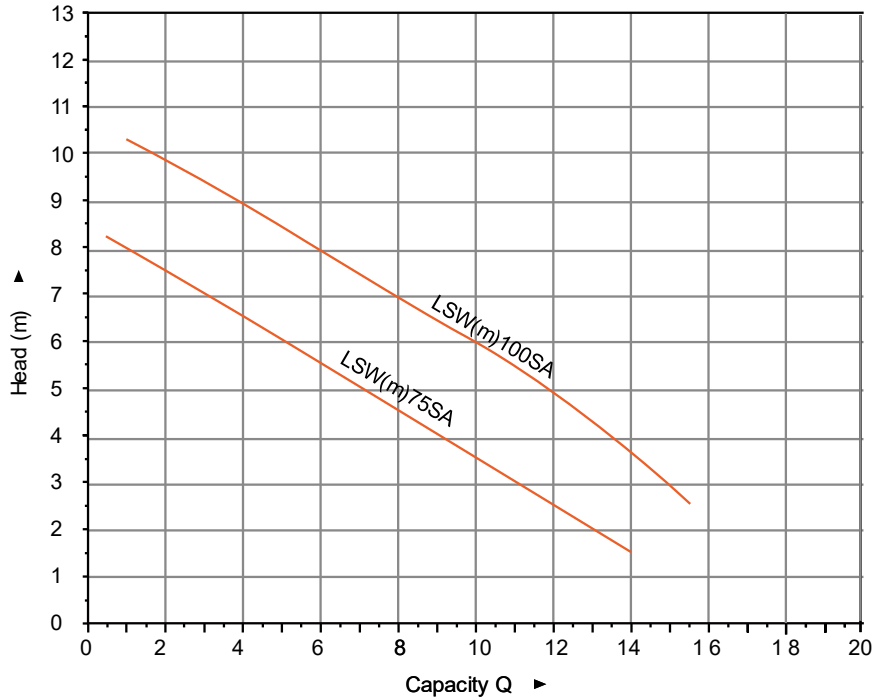


▶LSW m -CA Se ries

- Insulation class : F
- Protection class : IPX8

2. Technical Data — LSWm-SA

Model	Power		Voltage/ Frequency	Outlet	Q.Max	H.Max	Max.dia. of praticle
	Kw	HP	V/Hz	mm	m³/h	m	mm
LSWm75SA	0.55	0.75	180-220/50	G1.5	14	8	20
LSWm100SA	0.75	1	180-220/50	G1.5	15.5	11.5	20



▶LSW m -SA Se ries

- Insulation class : F
- Protection class : IPX8

3. Performance Comparison

VS

Former Range **LSW-A/XA Range**

Power(kW)		Model			Max.Flow(m^3/h)			Max.Head(m)			Outlet			Max.dia. of praticle(mm)		
Former	A/XA	Former	A	XA	Former	A	XA	Former	A	XA	Former	A	XA	Former	A	XA
0.18		XSP8-7/0.18I	LSWm25A	LSWm25XA	8	11	8	7	8	7	G1.25	G1.5	G1.2	15	15	15
0.25		XSP9-7.5/0.25I	LSWm30A	LSWm30XA	9	12	10	7.5	9	7.5	G1.25	G1.5	G1.2	15	15	15
0.45	0.4	XSP12-8.5/0.45I	LSWm50A	/	12	13	/	8.5	11	/	G2	G1.5	/	25	20	/
	0.6		LSWm75A	LSWm75XA		16	17		13.5	8.5		G2	G2		25	25
0.75		XSP18-12/0.75I	LSWm100A	LSWm100XA	18	19	20	12	17	11	G2	G2	G2	25	25	25
1.1		XSP20-9/1.1I	LSWm150A	LSWm150XA	20	26	23	9	13.5	12	G2	G2	G2	35	30	35
1.5		XSP16.2-22/1.5I	LSWm200A	LSWm200XA	16.2	32	26.5	22	19	17	G1.5	G2	G2	10	30	15

- The LSWm-A series outperforms the XSP series by approximately 30%, while the LSWm-XA series surpasses the XSP series by around 15%.
- The performance of the LSWm-A series slightly surpasses that of the LSWm-XA series, while the semi-open impeller design of LSWm-XA series ensures smoother operation of the water pump.

3. Performance Comparison

Former Range

VS

LSW-CA Range

Power(kW)		Model		Max.Flow(m^3/h)		Max.Head(m)		Outlet		Max.dia. of praticle(mm)	
Former	New	Former	New	Former	New	Former	New	Former	New	Former	New
1.1	**0.75**	XSP14-7/1.1ID	LSWm100CA	14	15	7	13	G2	G2	/	/
1.3	**1.1**	XSP18-12/1.3ID	LSWm150CA	18	25	12	14	G2	G2	/	/
1.8	**1.5**	XSP26.4-10/1.8D	LSWm200CA	26.4	30	10	17	G2.5	G2	/	/

- The LSWm Range consumes lower power to reach the similar performance.

3. Performance Comparison

Former Range

VS

New Range

Power(kW)		Model		Max.Flow(m^3/h)		Max.Head(m)		Outlet		Max.dia. of praticle(mm)	
Former	New	Former	New	Former	New	Former	New	Former	New	Former	New
0.45	**0.55**	XSP12-8.5/0.45I	LSWm75SA	12	14	8.5	8.5	G2	G2	25	30
0.75		XSP18-12/0.75I	LSWm100SA	18	20	12	10.5	G2	G2	25	30

- The LSW-S products performed better at the same power.

4. Materials Table

Materials Table	
Part	**Material**
Handle	AISI 304
Top cover	HT200
Upper cover	Aluminum
Shell	AISI 304
Oil cylinder cover	HT200
Pump body	HT200
Impeller	HT200（for Basic Model & LSWm100CA） AISI 304（for Other Cutting Models）
Shaft	AISI 304
Mechanical seal	SiC+Graphite/ Ceramic+Graphite
Oil cylinder cover	HT200
Connector	ABS
Cutting blade	AISI 304

4. Materials Table

Materials Table	
Part	**Material**
Handle	AISI 304
Top cover	AISI 304
Upper cover	Aluminum
Shell	AISI 304
Oil cylinder	AISI 304
Pump body	Stainless steel
Impeller	Stainless steel
Shaft	AISI 304
Mechanical seal	SiC+Graphite/ Ceramic+Graphite
Oil cylinder cover	AISI 304

THANK YOU