



Magnetic Pump Series

LC Stainless Magnetic Pump (Star Product)	1
LHC Fluoroplastic Magnetic Pump (Star Product)	8
CQB-F Fluoroplastic Magnetic Pump	14
LZM Fluoroplastic Self-priming Magnetic Pump	20
CQ Stainless Magnetic Pump	22
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Slurry Pump Series

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绿环泵业
LVHUAN PUMP VALVE

注册号: 8279766

安徽省著名商标

宣城市知名商标

宣城市名牌产品

Brand meaning:

The Lvhuang logo color is green, which symbolizes commit to green production, environmental protection and energy saving. The "H" in the middle represents the initial letter of chemical industry and environmental protection, which means that Lvhuang company specializes in providing environmental protection and energy-saving fluid transportation equipment for chemical industry, where is corrosive laces, there is Lvhuang protection.

Enterprise slogan: Lvhuang pump, to the world!

Enterprise safety concept: safety production is the foundation of everything!

Business philosophy: Integrity, innovation, service, win-win!

Enterprise quality concept: no quality products, is no value of waste!

Enterprise innovation concept: no technological innovation products, always cheap products!

Enterprise R & D concept: Based on scientific and technological innovation, with the goal of solving customers' practical problems, we constantly develop products with core technologies, and manufacture pumps meet the needs of current economic development.

Enterprise team spirit: show yourself, continuously innovation, solidarity and cooperation, common progress!

Enterprise talent concept: people-oriented, respect for knowledge, provide a platform, play value, and ultimately make every employee become a core member.



绿环简介 Company profile

【Enterprises situation】Anhui Lvhuang Pumps co.,Ltd was established in 2007, which is a national high-tech enterprises combined with research, development and production. We focus on the development and production of fluoroplastic pumps and stainless pumps for more than 10 years. The registered capital of the company is 50 million CNY, the construction area more than 10,000 square meters, the annual output value more than 80 million CNY, the annual profit and tax of 2 million CNY, annual output of various kinds of special chemical pump up to 20,000 sets, more than 3,000 chemical, electronic, pesticide, smelting enterprises to provide high-quality chemical pump equipment.

【Main products and core technique】The company main products have stainless centrifugal pump series, stainless magnetic pump series, fluoroplastic pump series, fluoroplastic centrifugal series, anti corrosive and wear resistance slurry pump more than 1000 models. In recent years, we insist on invent the core products: LFK fluoroplastic, LHC fluoroplastic magnetic pump, LHJ stainless alkali pump, LC Self-balance stainless magnetic pump, etc. In the meantime we also acquired the invention patents and leading skills.

【Accomplishment】Over the 10 years, our company has won the "Pump product production License", "ISO9001 International Quality Management System Certification", "ISO45001 Occupational Health and Safety Management System certification", "National High-tech Enterprise", "Xuancheng Famous trademark", "Xuancheng Famous brand Products", "Anhui Province Famous Trademark", And obtained 7 national invention patents, more than 10 utility model patents, more than 20 patents are being declared, the company adheres to the market-oriented, and constantly develops new efficient and energy-saving chemical pump to meet the latest market needs, we are committed to providing high-quality and reliable fluid transport equipment and solutions to customers.

【Talent and R&D capability】Now we have over 100 employees which more than 15% bachelor degree, college degree 40%, 8 professional R & D personnel, with pump R & D independent development capabilities and invent 20 new models in the past four years.

【Goals in next 3 years】In the next three years, we still insist on technological innovation as goal to maintain the leadership. Stay focus and widely absorb the latest technology in chemical pump fields. Develop the core technology and core products independently and creatively.



绿环发展历程

Development history

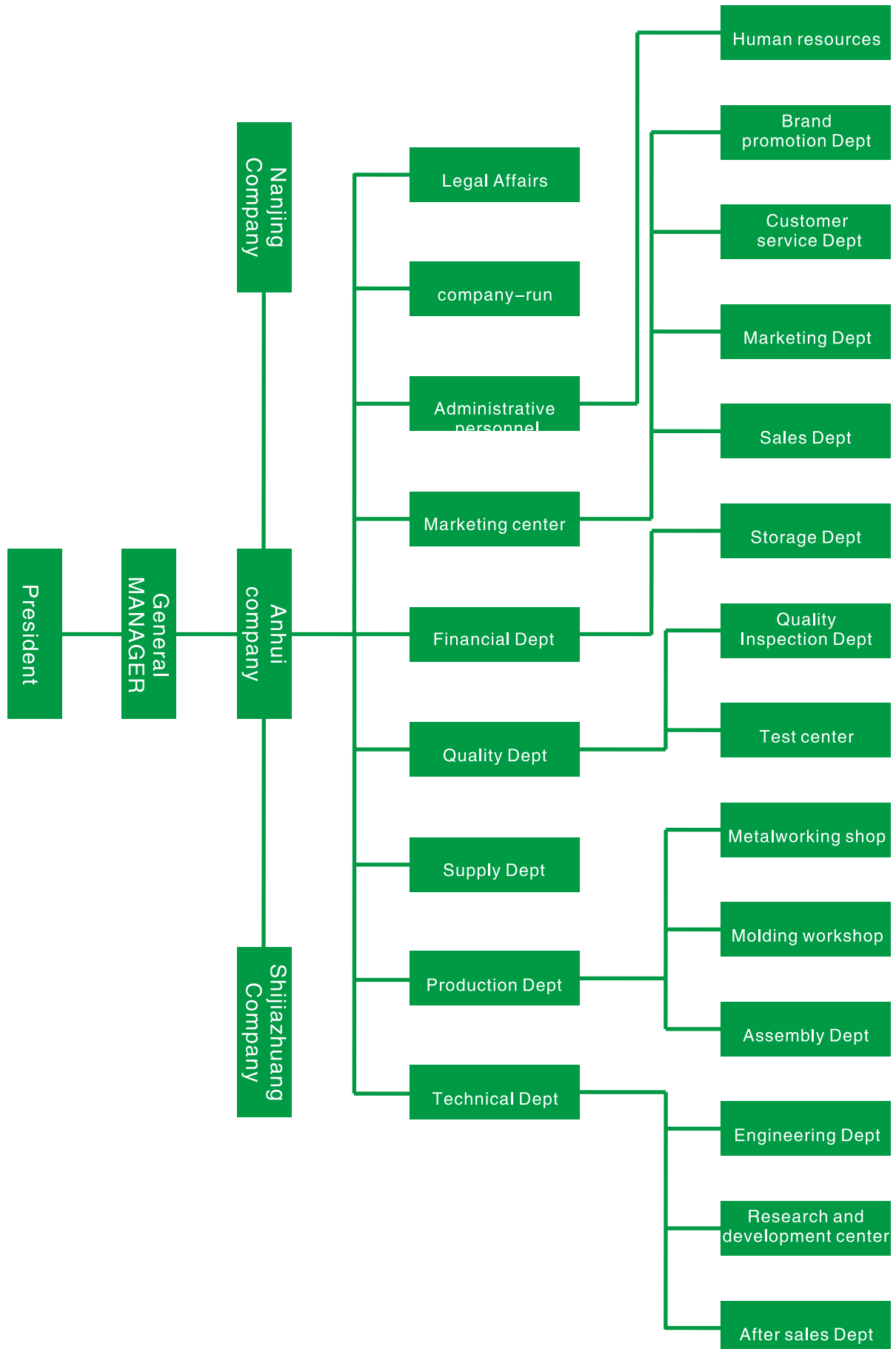
Lvhuan development will never stop looking forward to creating a brilliant tomorrow with you...





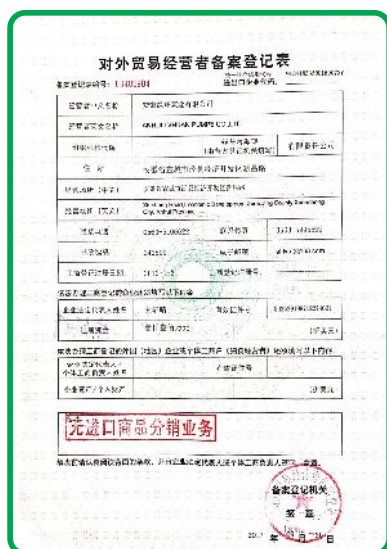
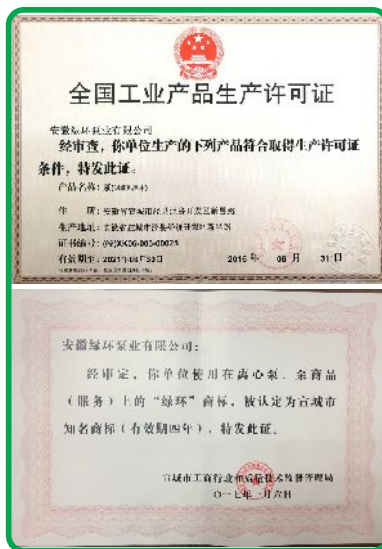
绿环组织架构

Organizational structure



绿环资质

Enterprise qualification





绿环员工风采

Staff style



Li Wenkai, born in the 1990s, technical director . He has been working in Lvhuang for 5 years. He is diligent and practical, good at understanding, and conscientious in his own work. Through their hard study and work to achieve their own value.



Zhu Yonggang, born in the 1990s, director of the metalworking workshop, he has been working in Lvhuang for 4 years and master the basic theoretical knowledge, methods and technologies of modern manufacturing and the operation, programming and management of numerical control machine tools.



Wu Yong, born in 1995s, assembly engineer. He has been working in Lvhuang for more than 1 year. As a new person, adhere to the "quality first" policy, so that parts do not collide, strengthen self-inspection and mutual inspection after product assembly, the first piece of inspection to ensure quality.



Bao Fuming, born in the 1960s, an ordinary lathe operator. He has been working in Lvhuang for 8 years. Bao Fuming is responsible for the finishing machining of "fluorine lining parts". Take his words: I love my job, I want to do it better, I take responsibility for my work.



Xun Tianbin, born in the 1970s, is an employee of the lining workshop of Lvhuang pump industry. He is not afraid of hardship and fatigue. In the hot summer, the temperature of the lining workshop is high, but he can overcome difficulties and stick to his post to ensure the production of multiple machines at the same time.



Sun Lijun, born in the 1990s, CNC lathe operator in metalworking workshop. He has been working in Lvhuang for more than 3 years. He is conscientious, hard-working, honest and dedicated in his work, and has excellent interpersonal communication skills and team spirit.

绿环厂区

Factory image



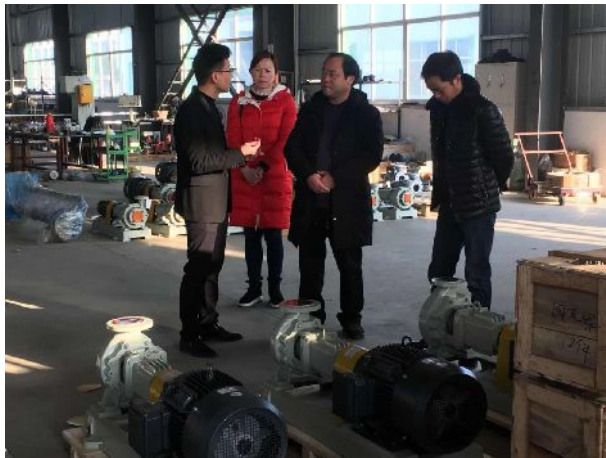


绿环领导关怀

Leadership care

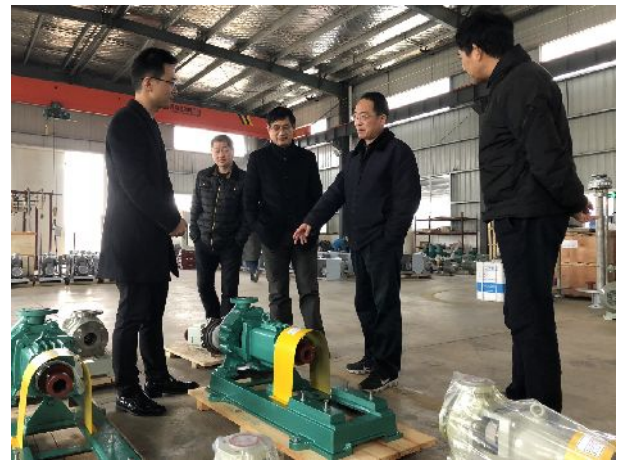


March 2017, the director of the Standing Committee of the county People's Congress (the political commissar of the County Industrial acceleration Conference) Zuo Yin Hai and the main leaders of the county development zone Management Committee came to visit and investigate, and Director Zuo asked the company's operation and employment situation last year in detail, and deeply understood the difficulties in the development of enterprises. Director Zuo expressed appreciation for the achievements in recent years, and encouraged enterprises to further strengthen innovation and strive for greater development.



April 2022, Xu Lixun, deputy secretary of the County Party Committee and county governor, came for research, and general manager Feng Yuanjun accompanied Xu County Governor to visit the production workshop, and reported to Xu County Governor the current production and operation, product research and development, product sales, and epidemic prevention and control measures. Mr. Xu affirmed the achievements of innovation and development as well as the epidemic prevention and control measures, and communicated with the person in charge of the company on the difficulties existing in the current epidemic situation. Mr. Xu pointed out that in the current severe situation, enterprises should overcome difficulties, increase innovation, strictly control product quality, and enhance corporate image, in addition, enterprises should grasp the epidemic prevention and control work, grasp the production and operation, and encourage enterprises to become bigger and stronger, and strive to successfully complete the annual goal and task.

September 2017, Geng Peng, then Secretary of the Party Committee of Jing County, Wang Houfu, deputy governor of the government, and leaders of major departments such as the County Economic and Information Commission and Science and Technology Bureau visited our company for guidance and research. Feng Yuanjun, general manager of Company, introduced the company's recent business performance, innovation and research and development to Secretary Geng, and reported the company's planning and development direction in the next few years. Secretary Geng fully affirmed the results and achievements of our company's innovative research and development, and encouraged us to continue to increase research and development efforts, invest in high-precision CNC machining equipment, improve the scientific and technological content of products, strive for greater development in the next few years, and make new contributions to the local pump and valve industry.



In December 2017, Wang Yongsheng, deputy director of the Standing Committee of the Jing County People's Congress, and the leaders of the county land Bureau visited the Company to deeply understand the development and operation of our company this year, and had a cordial conversation on the difficulties encountered in the development of our company and the next step of development planning. Enterprises further strengthen innovation and strive for greater development



绿环社会活动

Social activities



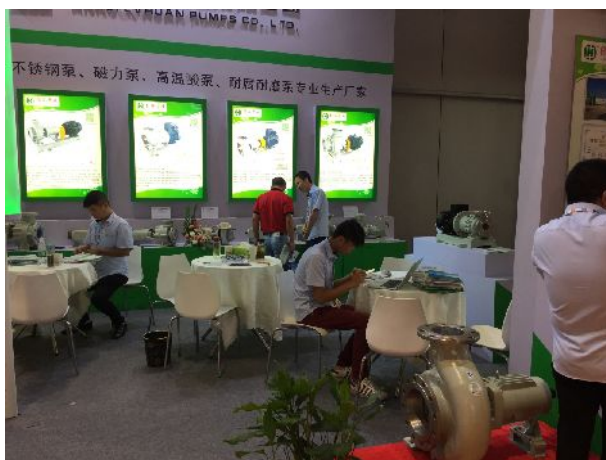
staff spring outing



Love Tibet walk activity



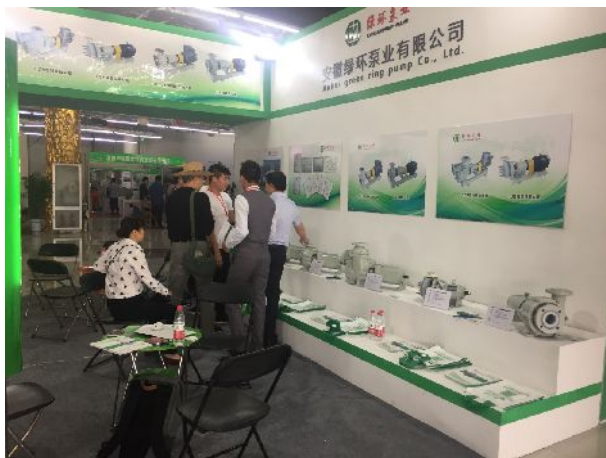
Love Tibet walk activity



Zibo Chemical Exhibition



Shanghai International Pump Valve Show



Jinan Water Show



Gantry Machining center



CNC pump shaft machining center



CNC machining pump supporting foot center



Vertical machining mold center



National B-class pump performance test bench



Pump performance test system

绿环生产实况

Production live



LC Stainless Magnetic Pump (Core product)

Customize low temperature ,
high temperature , heat preservation model

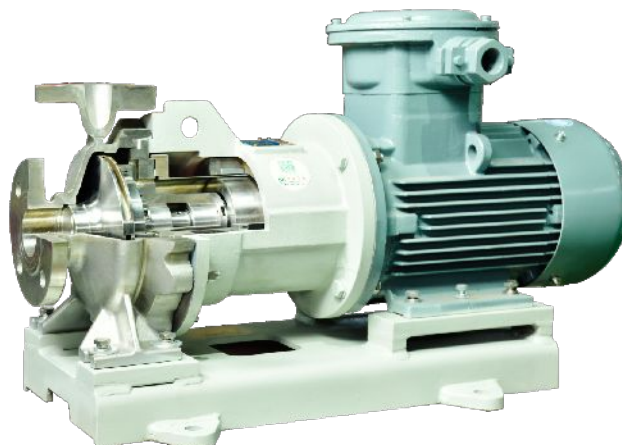
A heavy-duty metal magnetic pump, this pump take multiple patent design and new process development, compared with traditional CQ, CQB, IMC and other types ,it has big differences and significant advantages, as follows:

Product overview

LC series magnetic pump adopts heavy-duty structural design, it can be customized according to requirements, it can transport high gravity, large viscosity, high temperature, low temperature and other special working conditions, internal and external magnetic rotor adopts multi-stage combination design, can be reasonable combination according to different power and density, from one to three easy combination. The main structure has three parts: pump body, magnetic coupling and motor. The main principle is drive the external magnetic coupling through the motor, and the magnetic field passes through the "isolation sleeve" to drive the inner rotor indirectly, thereby driving the impeller to rotate and realizing the purpose of non-leakage transmission. The whole pump adopts the building block principle design, without any shaft sealing device, and has the characteristics of completely no leakage. Easy installation and maintenance, all wearing parts can be repaired and replaced on site. The pump adopts the excellent hydraulic model at home and abroad to improve the efficiency of the whole machine by 3-8

percentage points, the isolation set is made of high-quality stainless steel (special conditions can be used titanium, Hastelloy C), greatly reducing the magnetic eddy current, the transmission medium temperature below 120 degrees of the use of large magnetic energy NdFeb(Neodymium iron boron), when the temperature is 120 degrees -350 degrees, the use of high temperature samarium cobalt magnetic material, The internal rotating parts are supported by double sliding bearings, the clearance is very small, the unilateral clearance is only 0.02mm, the coaxiality is very high, and the operation is smooth without vibration and noise.

LC series stainless steel magnetic pump with full seal, no leakage, high efficiency, energy saving, clean, environmental protection, low noise, low vibration and many other advantages, is the best choice for conveying flammable, explosive, corrosive and valuable liquids. Therefore, this pump is widely used in medicine, pesticides, petroleum, chemical industry, alkali, paper making, dyes, electronics, sewage treatment and many other fields, is the ideal transport equipment for lye, alcohol, various organic solvents and other media.



Main use

LC stainless magnetic pump is suitable for petroleum, chemical, pharmaceutical, smelting, electroplating, environmental protection, food, film and television printing, water treatment, national defense and other industries, is the transmission of flammable, explosive, volatile, toxic, rare precious liquid and all kinds of corrosive liquid ideal equipment. Suitable for conveying the suction pressure is not more than 0.2MPa, the maximum working pressure is 1.6MPa, the temperature is not more than 100°C, the density is not more than 1600kg/m³, the viscosity is not more than 30x10⁻⁶m²/S without hard particles and fibers of the liquid.

Model Meaning

LC 65-50-160A

A-Impeller cutting G-High temperature B-heat preservation

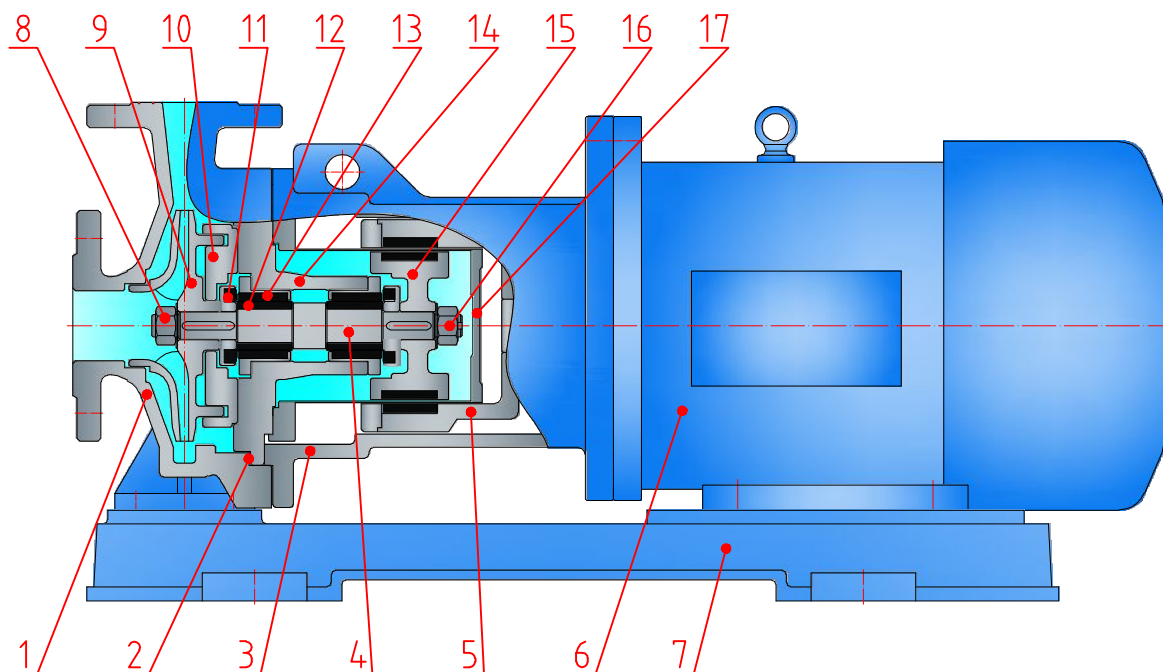
mm Impeller Diameter mm

Outlet Diameter mm

Inlet Diameter mm

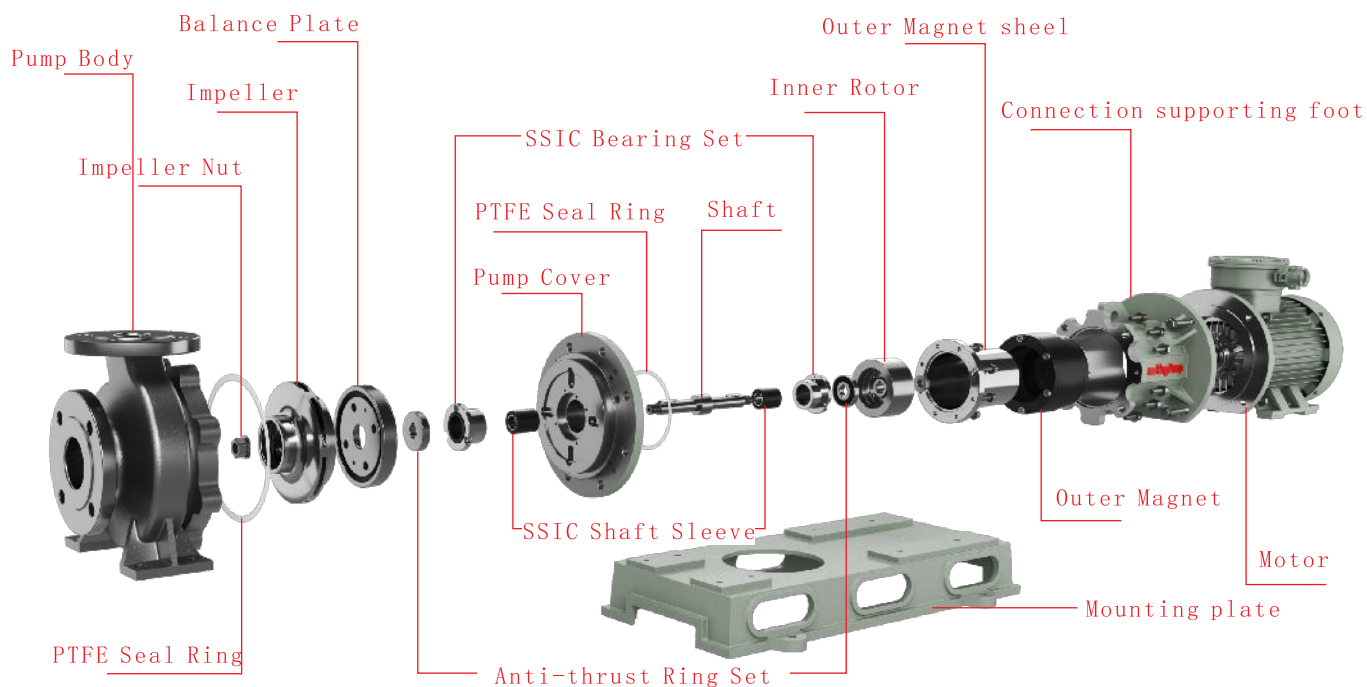
Model No.

Structure





NO.	1	2	3	4	5	6	7	8	9
Name	Pump Body	Pump Body Seal	Pump supporting foot	Pump Shaft	Outer Magnet	Motor	Mounting plate	Impeller Nut	Impeller
Material	304/316L	F4	HT200	304/316L	HT200 +N38SH	/	HT200	304/316L	304/317L
NO.	10	11	12	13	14	15	16	17	18
Name	Balance Plate	Anti-thrust Ringx2	Shaft Sleevex2	Bearingx2	Pump Cover	Inner Magnet Rotor	Rotor Nut	Outer Magnet sheel	
Material	304/316L	304/316L +SSIC	SSIC	304/316L +SSIC	304/316L	HT200 +N38SH	304/316L	304/316L	

Explosion map



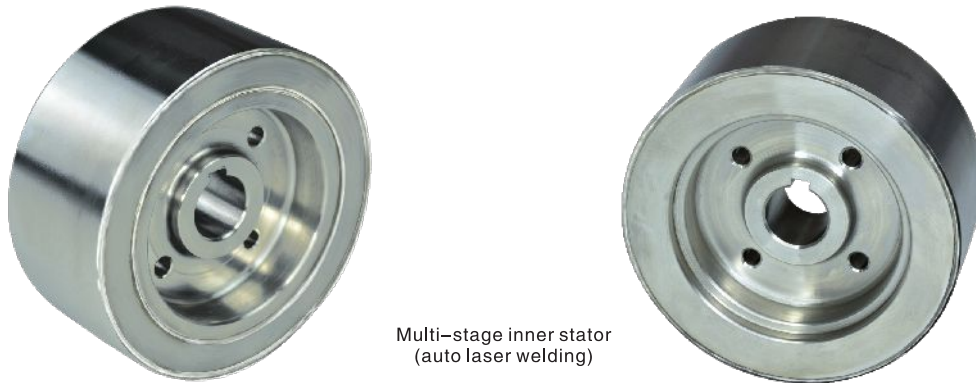
Comparison

Item	CQB Model (Market Ordinary) 	LC heavy duty magnetic pump 
General description	The traditional simplified structure has many disadvantages, such as the anti-thrust ring is non-replaceable, the bearing is easy to wear, the axial force is unbalanced and easy -cavitation .	Heavy-duty structure design, axial force self-balance, dynamic and static ring can be easily replaced, magnetic steel series according to the working condition free combination, all components have strong versatility, modular design.
Pump Body	ISO2858 Standard Pump Body	ISO2858 Standard Pump Body
Impeller	The impeller is cast by water glass technology	Silica sol precision casting, higher water efficiency (with front and rear mouth rings)
Pump cover	1-2 carbon fiber or graphite bearings are arranged in the bearing hole of the pump cover, and the interference pressing assembly type is adopted. This type of assembly will cause the bearing inner hole deformation and roundedness, which will cause the pump to fail to operate or the bearing ablation in serious cases, and lower the bearing wear resistance.	The special process is used for transition. The bearing seat with SSIC bearing, which is highly wear-resistant and can be easily replaced.
Anti-thrust ring	Using carbide or silicon carbide through the hot mount mounted on the impeller and rotor, affected by the temperature is easy to fall off, and can not be replaced separately, once damaged, you have to replace the entire impeller or rotor together with high cost.	Designed with anti thrust ring assembly and steel wire retaining ring design, it can be easily replaced independently. The impeller and rotor is independent.
Pump shaft	The ordinary 304 pump shaft and the graphite bearing is directly grinding and supporting the palm, because 304 is not wear-resistant, easy to wear. Some manufacturers use shaft and SIC sleeve, but 304 and SIC expansion coefficient is different, greatly affected by temperature, easy to crack SIC.	Lengthened 304 pump shaft + expansion sleeve +SSIC sleeve design, with the "SIC bearing" on the pump cover to wear support, hard to hard match, extremely long life, and not limited by temperature, its deformation is buffered by the expansion sleeve.
Inner rotor	single set of magnetic steel design, large outer diameter, large magnetic loss	The use of multiple groups of magnetic steel design, according to different working conditions, arbitrary combination, inner rotor diameter is small, axial length, higher efficiency of transfer torque, and magnetic loss is almost zero.
Outer rotor	single set magnetic steel design, large outer diameter, large magnetic loss, and the external magnetic barrel is small, serious magnetic leakage.	multi-stage magnetic steel design can be combined ,according to different working conditions, due to the small outer diameter, so the outer magnetic barrel is thicker, a separate design of the external magnetic pressure plate, completely eliminate the phenomenon of magnetic leakage.
Special structure design	CQB type without self-balancing design, just depend on anti-thrust ring and bearing friction barrier limit.	LC has self-balancing device, can use water self-balancing impeller, life increased for more than 3 times.

Design feature

A. Magnetic circuit design:

1. Combined push-pull magnetic circuit design is adopted to achieve the highest transmission efficiency of internal and external magnetic torque.
2. Rational design of magnetic Angle to maximize magnetic energy utilization;
3. Using a reasonable number of magnetic poles, the storage of static magnetic energy is increased, more kinetic energy is converted, and the number of magnetic blocks is less under the same torque;
4. The yoke iron design is adopted, and the thickness of the yoke iron is increased to avoid magnetic saturation, reduce magnetic resistance, increase the magnetic density of the air gap, increase the transmitted torque, and improve the performance of the internal magnetic rotor by about 120%;
5. The magnetic tile is arranged in multiple groups, and the heteropolar alternating group method is adopted, and the eddy current is closed between each pole, forming M*Z small eddy current (Z row number of magnetic poles, M number of magnetic poles) eddy current loss is greatly reduced.



Multi-stage inner stator
(auto laser welding)

B. axial force self-balancing design

1. When the pump is running, as the internal pressure of the pump chamber changes with the change of the pump parameters, the impeller is always in a floating state, and the ordinary magnetic pump only uses the "thrust disc" to hinder the friction of the axial force.
2. The green ring LC series magnetic pump adopts a unique axial force balance design. The balancing device is equipped with a balance disc, balance seat, front and rear double ring, and a pressure accumulator chamber. The axial force is automatically balanced by hydraulic power. With the change of the axial position of the impeller rotor components, the covered area of the balance hole will also change, which will automatically affect the pressure of the balance chamber.
3. For example, when the impeller rotor component shifts towards the suction direction, the opening degree of the "control valve" automatically increases, the overflow rate of the balance hole increases, the pressure of the balance chamber decreases, the pressure acting on the back cover of the impeller decreases, while the pressure of the front cover remains unchanged, at this time the thrust direction changes, so that the impeller rotor component returns to the balance position, and vice versa. Thus, the axial force can achieve true self-balance through hydraulic power, and the use of self-balance design makes the LC magnetic pump sliding bearing and the thrust disk almost no "friction", and the sliding bearing is close to zero load, effectively ensuring the stable operation and service life of the pump.
4. Due to flow changes, density changes, viscosity changes, temperature changes and other factors, the internal axial force of the pump will change, through the self-balancing device and under the interaction, the impeller rotor components will achieve self-balance, so that its position is always in the balance point, therefore, the LC magnetic pump using the device maximizes the working range of the pump. The adaptability of the pump to enhance different media and working conditions.



balance base



impeller with balance disc



self balance designed pump cover

Design feature

C, Bearing, sleeve, anti-thrust plate design:

The support parts of the main shaft of LC magnetic pump are protected by shaft sleeve to avoid direct friction between the metal shaft and the bearing, and the shaft sleeve, bearing and thrust disc are made of SSiC (press-free sintered silicon carbide), which eliminates the traditional hot loading process, improves the processing accuracy, adopts transition fit, and has axial limit, making the components more common and the cost of maintenance lower. And easy to replace.



Replaceable transition fit bearing (SSiC)



Replaceable changeable anti thrust (SSiC)

D, Circulation loop and flow design:

Reasonable circulation loop and circulation liquid flow control, so that the heat of the operating parts are taken away, reduce the circulation liquid temperature rise, the circulation liquid temperature rise is controlled within 3–5°C, reduce the risk of vaporization inside the isolation sleeve, improve the service life.



Pump cover with built-in anti-cavitation circuit



multi-stage designed outer magnet

E, Expansion buffer sleeve spindle sleeve design

The LC magnetic pump spindle uses the SSiC silicon carbide protective sleeve design, then the silicon carbide sleeve and the metal shaft expansion system is completely different under high temperature or extreme low temperature media, and if the design of the gap is large, it can not guarantee the concentricity, if the design is small, it will inevitably expand the silicon carbide sleeve under high temperature or low temperature media. Therefore, we finally added expansion buffer sleeve, which perfectly solves the problem of concentricity and thermal deformation.



Stainless steel expansion sleeve



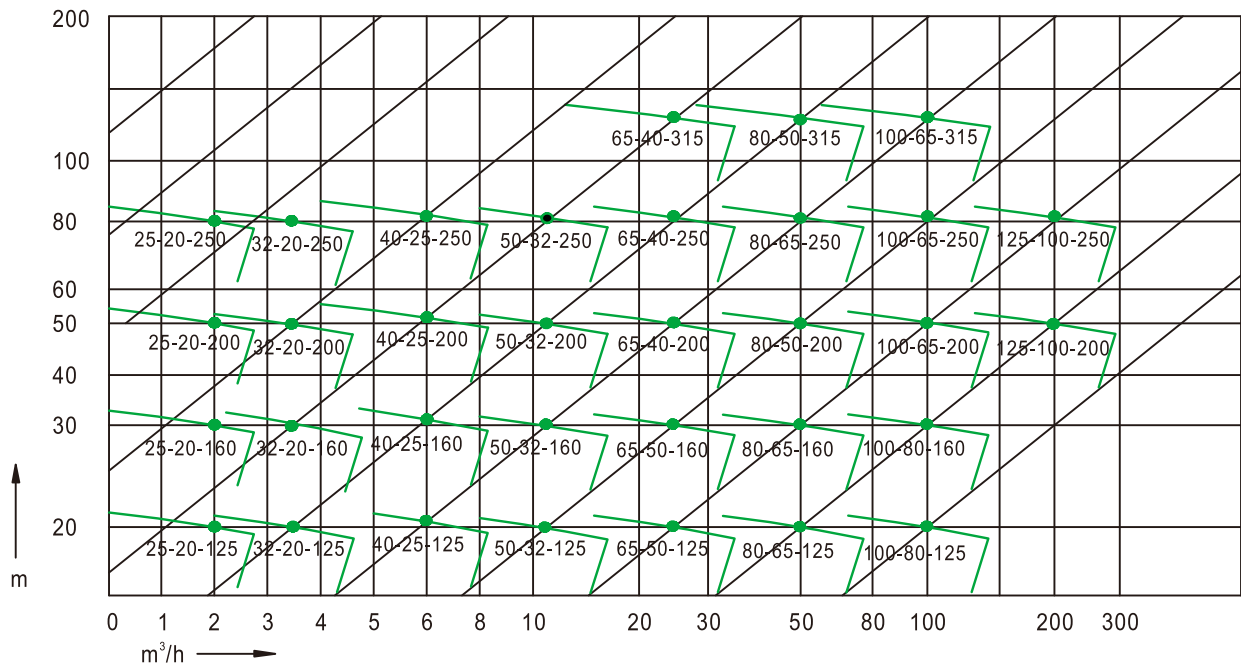
expansion sleeve and SSiC shaft sleeve

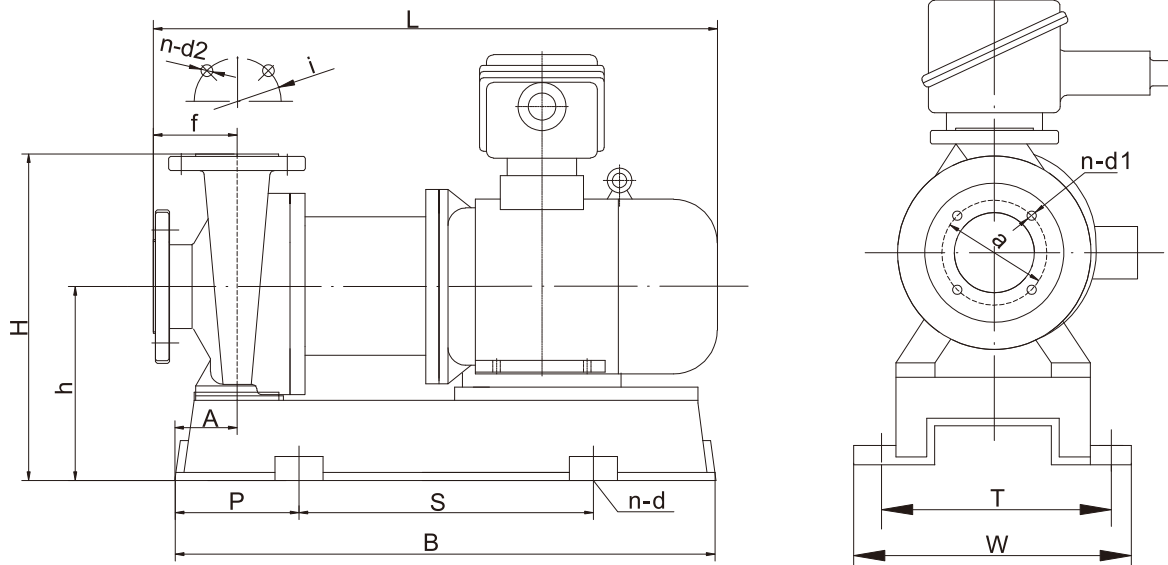


Pump Performance Sheet

NO. 序号	Type 型号	Aperture		Flow 流量 m³/h	Head 扬程 m	Power 电机功率 kw	Voltage 电压 V
		进口 mm	出口 mm				
1	LC32-20-125	32	20	3.2	20	1.1	380
2	LC32-20-160	32	20	3.2	32	2.2	380
3	LC32-25-200	32	20	3.2	50	4	380
4	LC40-25-125	40	25	6.3	20	2.2	380
5	LC40-25-160	40	25	6.3	32	3	380
6	LC40-25-200	40	25	6.3	50	5.5	380
7	LC50-32-125	50	32	12.5	20	3	380
8	LC50-32-160	50	32	12.5	32	4	380
9	LC50-32-200	50	32	12.5	50	7.5	380
10	LC50-32-250	50	32	12.5	80	18.5	380
11	LC65-50-125	65	50	25	20	4	380
12	LC65-50-160	65	50	25	32	7.5	380
13	LC65-40-200	65	40	25	50	15	380
14	LC65-40-250	65	40	25	80	18.5	380
15	LC80-65-125	80	65	50	20	7.5	380
16	LC80-65-160	80	65	50	32	15	380
17	LC80-50-200	80	50	50	50	18.5	380
18	LC80-50-250	80	50	50	80	37	380
19	LC100-80-125	100	80	100	20	15	380
20	LC100-80-160	100	80	100	32	18.5	380
21	LC100-65-200	100	65	100	50	37	380
22	LC100-65-250	100	65	100	80	55	380
23	LC125-80-160	125	80	160	35	30	380

Performance curve



Installation Dimensions


产品型号	外形安装尺寸														
	A	L	B	S	P	W	T	f	H	h	a	i	n-d	n-d1	n-d2
25-20-125	100	560	385	185	80	270	220	70	342	115	85	75	4-Ø16	4-Ø18	4-Ø14
25-20-160	100	560	385	185	75	270	220	80	360	195	85	75	4-Ø16	4-Ø18	4-Ø14
25-20-200	100	560	385	185	80	270	220	70	342	115	85	75	4-Ø16	4-Ø18	4-Ø14
25-20-250	100	560	385	185	75	270	220	80	360	195	85	75	4-Ø16	4-Ø18	4-Ø14
32-20-125	100	560	385	185	80	270	220	70	342	115	100	75	4-Ø16	4-Ø18	4-Ø14
32-20-160	100	560	385	185	75	270	220	80	360	195	100	75	4-Ø16	4-Ø18	4-Ø14
32-20-200	100	560	385	185	75	270	220	80	360	195	100	75	4-Ø16	4-Ø18	4-Ø14
32-20-250	100	560	385	185	75	270	220	80	360	195	100	75	4-Ø16	4-Ø18	4-Ø14
40-25-125	110	560	440	185	75	270	220	80	325	178	110	85	4-Ø16	4-Ø18	4-Ø14
40-25-160	110	653	480	270	80	330	280	80	370	210	140	85	4-Ø16	4-Ø18	4-Ø14
40-25-200	110	728	430	320	80	380	280	80	410	230	145	85	4-Ø16	4-Ø18	4-Ø14
40-25-250	110	728	430	320	80	380	280	80	410	230	145	85	4-Ø16	4-Ø18	4-Ø14
50-32-125	60	634	570	370	100	390	350	80	352	192	125	100	4-Ø20	4-Ø18	4-Ø18
50-32-160	60	654	570	370	100	390	350	80	372	212	125	100	4-Ø20	4-Ø18	4-Ø18
50-32-200	65	756	675	475	100	450	400	80	420	240	125	100	4-Ø20	4-Ø18	4-Ø18
50-32-250	65	902	780	580	100	490	440	100	420	240	145	110	4-Ø20	4-Ø18	4-Ø18
65-50-125	60	634	570	370	100	390	350	80	352	192	145	125	4-Ø20	4-Ø18	4-Ø18
65-50-160	75	769	675	475	100	450	400	80	373	212	165	125	4-Ø20	4-Ø18	4-Ø18
65-40-200	75	902	780	580	100	490	440	80	420	240	145	125	4-Ø20	4-Ø18	4-Ø18
65-40-250	75	928	780	580	100	490	440	80	485	260	145	125	4-Ø20	4-Ø18	4-Ø18
65-40-315	75	958	780	580	100	490	440	80	485	260	145	125	4-Ø20	4-Ø18	4-Ø18
80-65-125	65	750	675	475	100	450	400	80	372	212	160	145	4-Ø20	4-Ø18	4-Ø18
80-65-160	75	928	780	580	100	490	440	80	485	260	160	145	4-Ø20	4-Ø18	4-Ø18
80-50-200	65	902	780	580	100	490	440	100	440	240	160	145	4-Ø20	4-Ø18	4-Ø18
80-50-250	187	1108	760	500	130	500	450	125	525	300	160	125	4-Ø20	4-Ø18	4-Ø18
80-50-315	187	943	680	440	120	440	390	100	480	260	180	160	4-Ø24	4-Ø18	4-Ø18
100-80-125	80	982	830	530	130	500	450	100	460	260	180	160	4-Ø18	4-Ø18	4-Ø18
100-80-160	185	1120	760	520	120	500	450	100	525	300	180	145	4-Ø18	4-Ø18	4-Ø18
100-65-200	185	1095	870	640	120	600	550	120	600	320	180	145	4-Ø18	4-Ø18	4-Ø18
100-65-250	185	1120	1060	640	120	600	550	120	600	320	180	145	4-Ø18	4-Ø18	4-Ø18
100-65-315	185	1265	990	590	150	550	500	100	625	345	180	145	4-Ø18	4-Ø18	4-Ø18
125-100-200	185	1320	1070	630	120	600	550	120	665	345	210	180	4-Ø18	4-Ø18	4-Ø18
125-100-250	185	1265	990	590	150	550	500	120	665	345	210	180	4-Ø18	4-Ø18	4-Ø18

The above data is subject to change without notice. please ask for 1:1 CAD drawings if you not find the suitable model.