



螺优®
LUOYOU



创新·高效·节能 螺优卓越品质

INNOVATE·HIGH EFFICIENCY·ENERGY CONSERVATION EXCELLENT QUALITY

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螺优致力于服务全球的用户

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油冷永磁变频螺杆空压机

OIL-COOLED PERMANENT MAGNET
VARIABLE FREQUENCY SCREW AIR COMPRESSOR



产品特点

- 德国原装进口主机；
- 进口主机首家与永磁电机对接；
- 功率范围：7.5kw-55kw，电机转速3000rpm；
- 服务系数：1.2；
- 无轴承，无编码器方案；
- 采用独特的真空环氧浸漆方案，提高电机的绝缘等级和绕组的散热能力；
- 结合客户的机械结构，整体防护等级可达IP65，减少灰尘，烟雾等对电机寿命的影响；
- 转子表面采用进口碳纤维套管和铁芯采用冲片方案，降低转子惯量，降低电机启动电流，增加电机的响应率；
- 体积小，噪音低；
- 模式锥度联接设计，电机易于安装和拆卸，最高转速时电机效率最高可达100%。
- 排气端采用圆锥滚珠轴承，进气口采用圆柱轴承，寿命长。

Features

- Main engine imported from Germany;
- The first imported host machine is connected with permanent magnet motor;
- Power range: 7.5KW-55KW, motor speed: 3000rpm;
- Service coefficient: 1.2;
- No bearing, no encoder scheme;
- The unique vacuum epoxy immersion scheme is adopted to improve the insulation grade and heat dissipation capacity of the windings.
- Combined with the customer's mechanical structure, the overall protection level can reach IP65, reducing the impact of dust and smoke on the motor life;
- The rotor surface adopts the imported carbon fiber sleeve and the iron core adopts the punching scheme, which reduces the rotor inertia, reduces the motor starting current, and increases the motor response rate.
- Small size, low noise;
- Mode taper connection design, motor easy to install and disassemble, motor efficiency at the highest speed up to 100%.
- The exhaust end adopts tapered ball bearing and the inlet adopts cylindrical bearing, which has a long service life.

主要优势

- 结构上采用一体转动联接设计:电机和机头采用模式锥度联接设计或直轴联接设计,安装和拆卸更加便捷;
- 采用无轴承和无编码器方案:免定期注油脂、免定期更换轴承;
- 高功率体积比、扭矩体积比:电机体积只有相同功率普通电机的1/3,功率体积比和扭矩比普通电机的2~3倍;
- 高IP等级:电机最高防护等级可达IP65;
- 电机效率更高:其效率最高可达97%~98%,达到国家一级能效水平,相对于普通电机平均节电率可达30%。



Advantage

- Integrated rotating connection design is adopted in the structure: the motor and the head adopt taper connection design or straight shaft connection design, which is more convenient for installation and disassembly.
- Adopt bearingless and encoder less scheme: no regular grease injection, no regular replacement of bearings;
- High power volume ratio and torque volume ratio: the volume of the motor is only 1/3 of that of the ordinary motor of the same power, and the power volume ratio and torque are 2~3 times of that of the ordinary motor;
- High IP level: the highest protection level of the motor can reach Ip65;
- Higher efficiency of motor: its efficiency can reach up to 97%~98%, reaching the national level of energy efficiency, compared with the average power saving rate of ordinary motor can reach 30%.

电机在空压机上的实例

An example of a motor on an air compressor

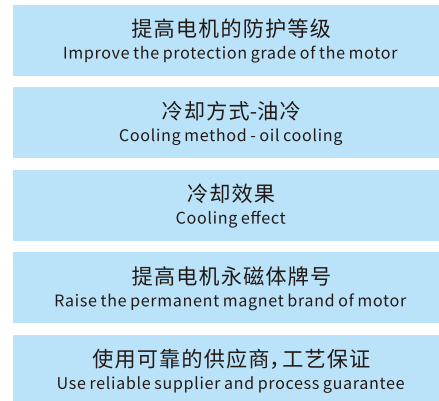
目前行业永磁电机存在的问题

Current problems of permanent magnet motors in the industry



如何解决和控制电机不失磁

How to solve and control the motor magnetic loss



风冷永磁变频螺杆空压机

AIR-COOLED PERMANENT MAGNET VARIABLE FREQUENCY SCREW AIR COMPRESSOR

- 进口主机首家与永磁电机直接对接；
- 排气端采用圆锥滚珠轴承，进气口采用圆柱轴承，寿命长，相对同功率的普通机型，更大规格的主机，排气量大。

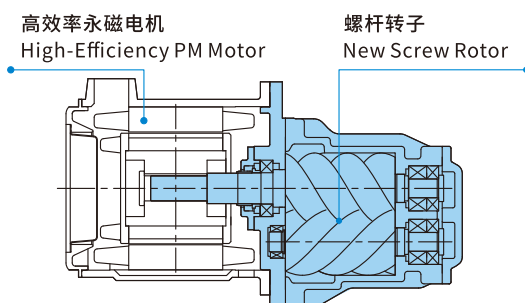
- The first imported host machine is directly connected with the permanent magnet motor;
- The exhaust end USES tapered ball bearing, the intake USES cylindrical bearing, the service life is long, relative to the same power of the ordinary model, the larger size of the main engine, large air displacement.

一体轴结构

- 高效永磁电机与螺杆阳转子采用内嵌式一体轴直联结构，传动效率100%，无齿轮箱、无皮带无传动效率损失，相比更节能。
- 装备了高效永磁电机，在低频低速时，仍能保持很高的机械效率。
- 永磁电机采用高效能铁硼永磁体，节能性能卓越。电机定子采用变频器专用耐电晕漆包线，绝缘性能佳，使用寿命长。软启动，运行时，电机电流不超过满载电流，减少了对电网设备的冲击。

Integral shaft structure.

- The high efficiency permanent magnet motor and screw rotor adopt the embedded integrated shaft direct connection structure, the transmission efficiency is 100%, no gearbox, no belt, no transmission efficiency loss, compared with more energy saving.
- Equipped with high efficiency permanent magnet motor, it can maintain high mechanical efficiency at low and low frequency.
- Permanent magnet motor adopts high efficiency iron and boron permanent magnet, which has excellent energy saving performance. The motor stator adopts special corona resistant lacquered wire of frequency converter, which has good insulation performance and long service life. Soft start, running, motor current does not exceed full load current, reduce the impact on the power network equipment.

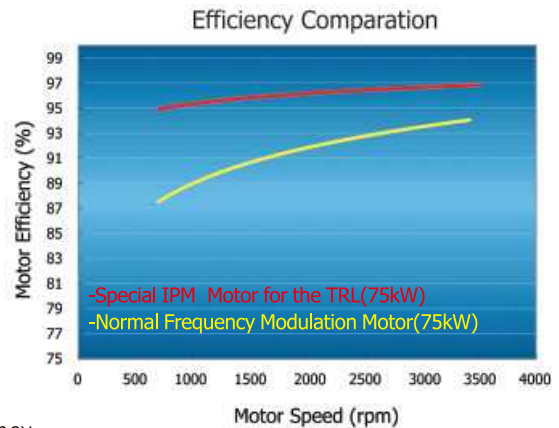


杜绝无用功率损耗

■ 压力传感器检测排气口的压力，把信号传输给 PLC，PLC 根据压力传感器的压力大小来控制变频器的输出频率。当压力大时，减小频率；当压力小时，增大频率，使压力始终恒定。压缩机通过变频器来控制永磁电机转速，这样就组成了一个变频闭环控制系统。实现恒压供气、多用多产、少用少产、不用即停、有用即变频启动产气，彻底杜绝了无用功的能源损耗。

Eliminate useless power loss

■ The pressure sensor detects the pressure of the exhaust port and transmits the signal to PLC, which controls the output frequency of the inverter according to the pressure of the pressure sensor. When the pressure is high, reduce the frequency; When the pressure is small, increase the frequency so that the pressure is always constant. The compressor controls the speed of the permanent magnet motor through a frequency converter, thus forming a frequency conversion closed-loop control system. Achieve constant pressure gas supply, more productive, less use and less production, no stop, useful variable frequency start gas production, completely eliminate useless energy consumption.

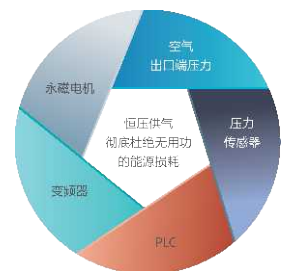


工作频率范围更广阔、噪音更低

■ 变频范围从25%-100%，系统用汽波动越大，节能效果越明显。正常运行噪音为65db，低噪音运行更适合于任何场所。

■ 购买螺杆机时，传统意义上的成本（即购买成本与保养成本），其比例只占到总成本的25%，而能源消耗却占到75%。永磁变频螺杆比普通工频螺杆机可能35%以上。

■ LY系列4级永磁变频空压机专用高效电机较其它厂家8级永磁电机相比，具有额定频率较低，涡流损耗较小、发热量较小、效率较高的优势。更适合3000转使用场合；转子为永磁体内嵌式结构，区别于市场上8级永磁体表贴式结构，具有更好的结构稳定性，磁钢不易受离心力影响而飞出。同时可更好的利用磁阻转矩，使电机的功率密度提升，电机结构更加紧凑，重量、体积、成本上均有优势。

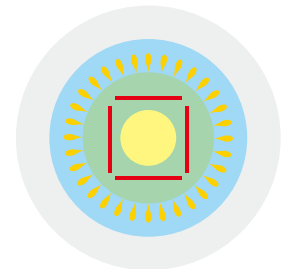


Operating frequency range is wider and noise is lower

■ The range of frequency conversion is from 25% to 100%. The greater the fluctuation of system steam, the more obvious the energy saving effect is. Normal operation noise is 65dB, low noise operation is more suitable for any place.

■ When purchasing a screw machine, the traditional cost (i.e. purchase cost and maintenance cost) accounts for only 25% of the total cost, while energy consumption accounts for 75%. Permanent magnet variable frequency screw machine than normal frequency screw machine may be more than 35%.

■ LY series 4-stage permanent magnet inverter air compressor dedicated high efficiency motor compared with other manufacturers of 8-stage permanent magnet motor, has the advantages of lower rated frequency, less eddy current loss, less calorification and higher efficiency. More suitable for 3000 turn occasions; The rotor is a permanent magnet body embedded structure, which is different from the 8-level permanent magnet body surface tip structure on the market. It has better structural stability, and the magnetic steel is not susceptible to centrifugal force and flies out. At the same time, magnetoresistance torque can be better used to improve the power density of the motor, the motor structure is more compact, weight, volume, cost advantages.



LY4级电机转子示意图

永磁变频技术参数

PERMANENT MAGNET FREQUENCY CONVERSION TECHNICAL PARAMETERS

注：一体机/Note: All-in-one machine

参数		LY-	10CV	15CV	20CV	30CV	40CV	50CV
排气量/排气压力 (m ³ .min-1/MPa)			0.33~1.2/0.8	0.48~1.6/0.8	0.66~2.4/0.8	1.05~3.5/0.8	1.5~5.0/0.8	1.83~6.1/0.8
			0.28~0.95/1.0	0.42~1.4/1.0	0.6~2.0/1.0	0.96~3.2/1.0	1.29~4.3/1.0	1.71~5.7/1.0
			0.24~0.8/1.3	0.36~1.2/1.3	0.51~1.7/1.3	0.87~2.9/1.3	1.11~3.7/1.3	1.53~5.1/1.3
电动车	功率(KW)		7.5	11	15	22	30	37
	马力(HP)		10	15	20	30	40	50
噪音dB(A)			66±2	68±2	68±2	69±2	69±2	70±2
出口管径			G1/2	G3/4	G3/4	G11/4	G11/4	G11/2
机组重量(KG)			240	405	430	540	690	750
外形尺寸	长(mm)		800	950	950	950	1300	1200
	宽(mm)		720	800	800	900	860	1000
	高(mm)		950	1070	1070	1100	1135	1500

注：分体机/Note: Fission machine

参数		LY-	20CV	30CV	50CV	60CV	75CV	100CV
排气量/排气压力 (m ³ .min-1/MPa)			0.66~2.4/0.8	1.1~3.8/0.8	1.9~6.5/0.8	2.3~8.0/0.8	2.9~10.05/0.8	4.0~13.3/0.8
			0.6~2.0/1.0	0.96~3.2/1.0	1.72~5.8/1.0	2.1~6.8/1.0	2.6~7.8/1.0	3.5~12.2/1.0
			0.51~1.7/1.3	0.87~2.9/1.3	1.4~4.6/1.3	1.7~5.8/1.3	2.3~7.3/1.3	2.9~9.0/1.3
电动车	功率(KW)		15	22	37	45	55	75
	马力(HP)		20	30	50	60	75	100
噪音dB(A)			68±2	69±2	72±2	70±2	73±2	75±2
出口管径			G3/4	G11/4	G11/2	G2	G2	G2
机组重量(KG)			360	650	840	920	1500	1800
外形尺寸	长(mm)		1200	1300	1420	1700	1700	1900
	宽(mm)		800	860	1000	1150	1150	1200
	高(mm)		1240	1135	1250	1500	1500	1555

注：分体机/Note: Fission machine

参数		LY-	125CV	150CV	180CV	220CV	250CV	300CV
排气量/排气压力 (m ³ .min-1/MPa)			4.5~16.3/0.8	3.8~20.6/0.8	4.6~24.0/0.8	5.3~27.0/0.8	6.2~30.2/0.8	7.3~36.4/0.8
			4.3~14.6/1.0	3.4~17.0/1.0	4.0~20.6/1.0	4.5~23.2/1.0	5.6~27.0/1.0	6.4~33.1/1.0
			3.7~12.3/1.3	2.9~14.2/1.3	3.6~16.5/1.3	4.0~19.7/1.3	5.0~22.5/1.3	5.7~38.5/1.3
电动车	功率(KW)		90	110	132	160	185	220
	马力(HP)		125	150	180	220	250	300
噪音dB(A)			75±2	75±2	75±2	75±2	78±2	78±2
出口管径			G2	DN65	DN65	DN80	DN80	DN100
机组重量(KG)			2200	2900	3100	3300	3500	4500
外形尺寸	长(mm)		2100	2300	2550	2550	2800	3200
	宽(mm)		1250	1650	1650	1650	1750	1950
	高(mm)		1700	2000	2000	2000	2100	2150

双级压缩永磁变频螺杆空压机

TWO-STAGE COMPRESSION PERMANENT MAGNET
 VARIABLE FREQUENCY SCREW AIR COMPRESSOR



「最新一段节能王 省电可超过40%以上」



超节能
直联驱动
高效四级永磁电机
更节能

Super energy-saving
 Straight league drive
 High efficiency four-stage
 permanent magnet motor
 More energy efficient



低噪音
直联驱动、振动小
低转速、噪音低
主机进气消音及
压缩机进气设计

Low noise
 Directly connected drive,
 low vibration
 Low speed and low noise
 Main engine air intake silencing
 and Compressor intake design



高效率
直联驱动, 大转子
低转速主机
转动效率高

High efficiency
 Direct drive, great rotor
 Low speed engine
 High rotational efficiency

双级压缩永磁变频螺杆空压机 TWO-STAGE COMPRESSION PERMANENT MAGNET VARIABLE FREQUENCY SCREW AIR COMPRESSOR



高效主机

- 选用高效,大排量主机,节能永磁电机,真正做到功率小,大排量;
- 大转子,转速低,效率高,噪音低,振动小,能耗低。

Efficient host

- High efficiency, large displacement Main engine, energy-saving permanent magnet motor, Really do small power, big Displacement;
- Large rotor, low speed, High efficiency, low noise, vibration Small, low energy consumption.



永磁电机

- 启动转矩大,绝缘等级F级,防护等级IP54, SKF轴承,噪音低,寿命长,具有加油装置,可不停机加油。

Permanent magnet motor

- High start torque, insulation Level F, level of protection IP54, SKF bearing, noise Low, long life, with refueling Device, without stopping for refueling.

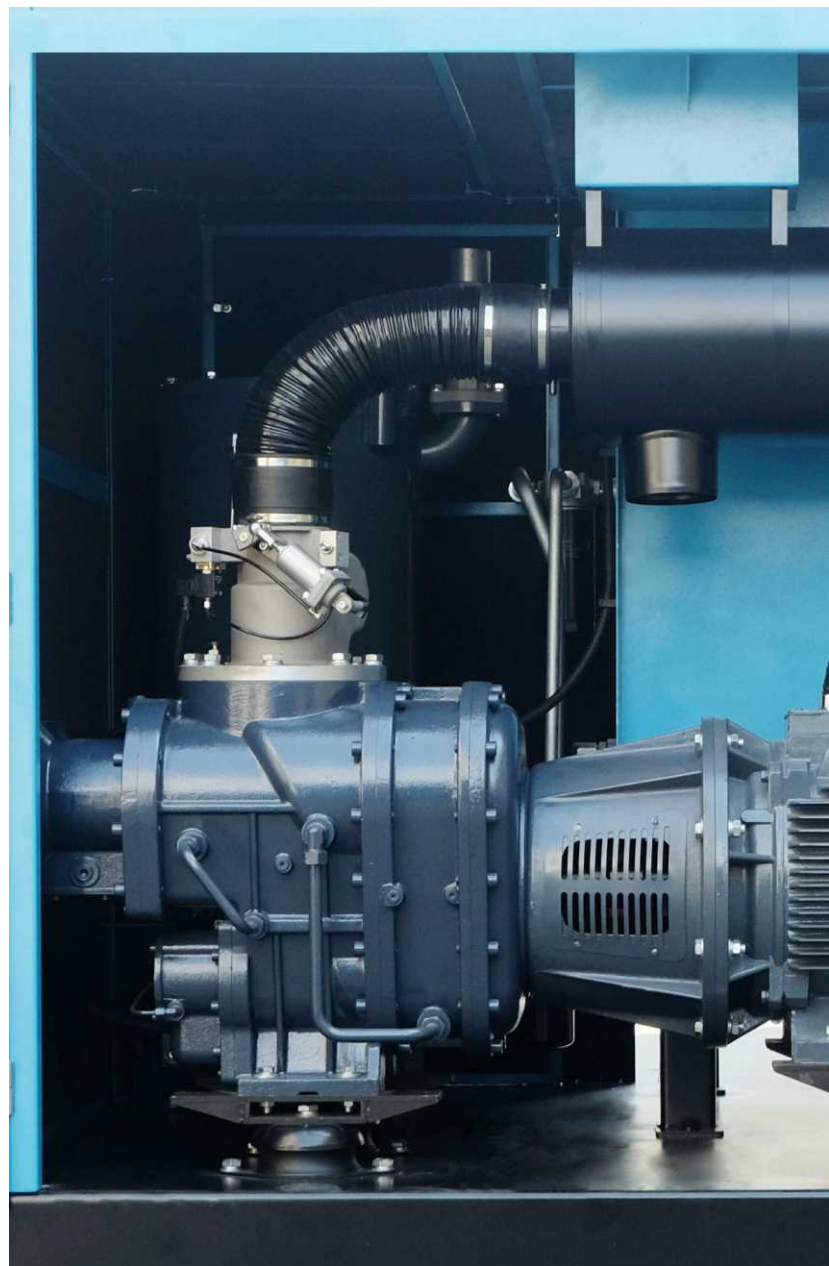


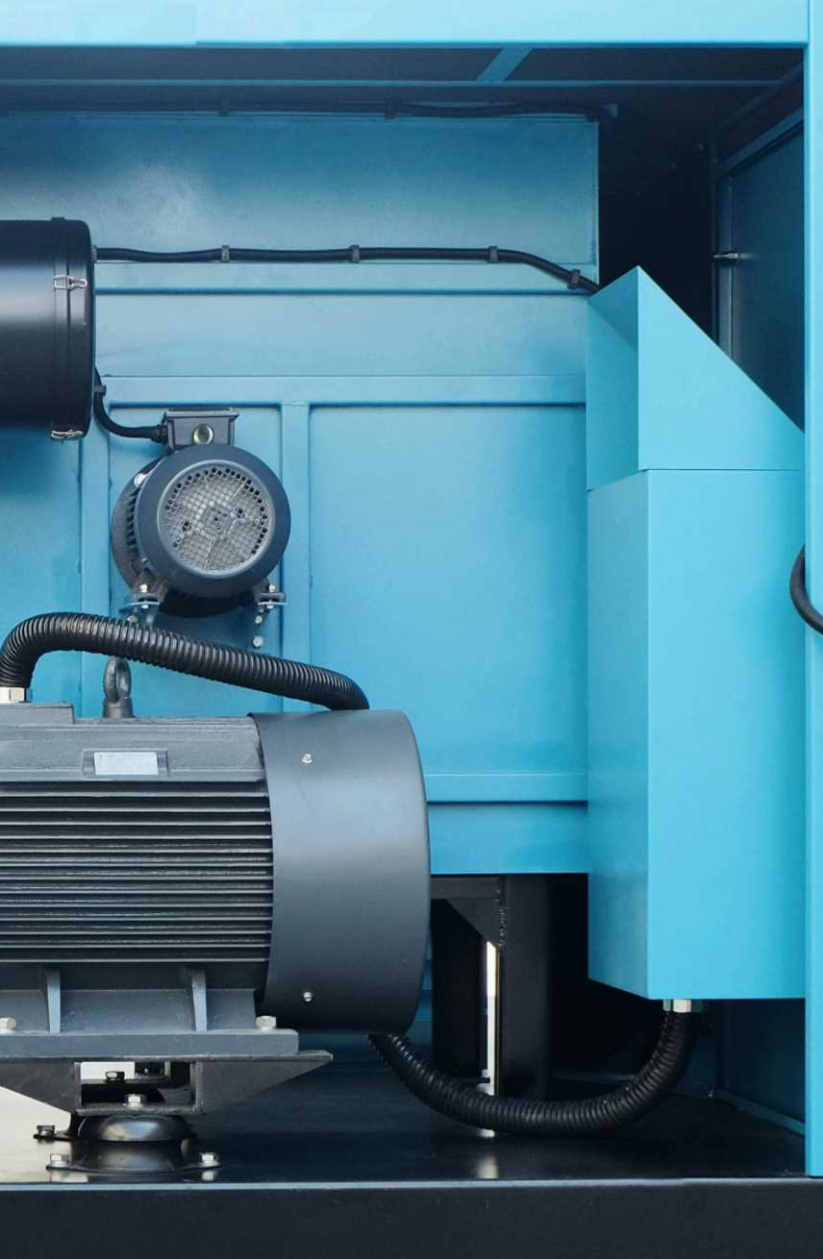
PM控制系统

- 一体式变频控制器,人性化结构设计世界名牌电控元件,安全可靠,操作简便可于多种通讯控制系统集成广泛的通讯功能。

Permanent magnet motor

- Integrated variable frequency control Machine, humanized structure design World famous electronic control components, Safe and reliable, easy to operate Can be controlled in a variety of communication The system integration is broad Inquiry function.





油气分离

■ 超大容量的油气分离器，品质优越的滤纸，含油量控制在2PPM以下，保证压缩空气的高质量新型设计，显著降低进气阻力。



Oil and gas separation

■ Super capacity of oil and gas Separator, superior quality filter paper, The oil content is controlled at 2PPM Below, make sure the compressed air is high quality New design of quality, significantly reduced Low intake resistance.

高效进气阀

■ 大口径，低消耗。提高系统的稳定性，确保启动，运转及停机阶段有效地调节控制流量。



High efficiency intake valve

■ Large diameter, low consumption. mention High system stability ensures Start up, run up and down stage Effectively regulate and control flow rate.

冷却系统

■ 低功耗，低噪音，轴流冷却风扇，采用进气消声设计，合理冷却系统设计，可靠性的关键。



The cooling system

■ Low power consumption, low noise, Axial flow cooling fan, adopt feed Air noise elimination design, reasonable cooling System design, reliability The key.

双级压缩永磁变频螺杆空压机

TWO-STAGE COMPRESSION PERMANENT MAGNET
VARIABLE FREQUENCY SCREW AIR COMPRESSOR

双级压缩原理

■ 空气经过一级压缩后,通过强化喷油冷却,降低二级空气温度,空气进行等压缩,降低压缩功。两级压缩采用等压比来设定级间压力,故每级压缩比都要比单级压缩比降低很多,转子之间的回流泄露量大大降低了,容积效率和绝热效率得到了大大提高,相应的提升了压缩的产气量。在相同的功率下两级压缩比单级压缩产气量高达15%,可实现多达15%的节能效果。

The principle of two-stage compression

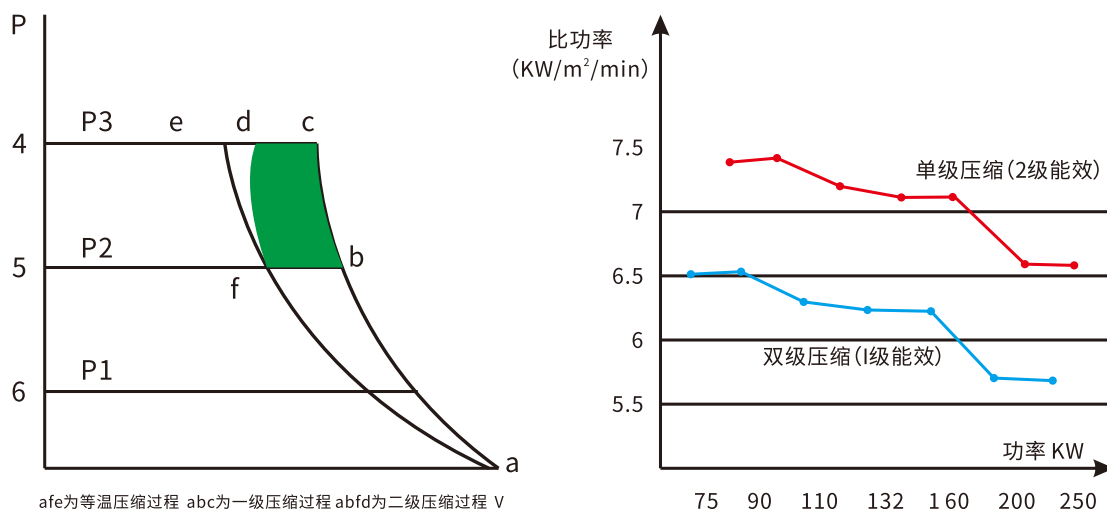
■ After the first stage compression, the air is cooled by enhanced oil injection to reduce the temperature of the second stage air, and the air is equally compressed to reduce the compression work. The isobaric ratio is used to set the pressure between two stages of compression, so the compression ratio of each stage is much lower than that of the single stage, the backflow leakage between the rotors is greatly reduced, the volumetric efficiency and adiabatic efficiency are greatly improved, and the compressed gas production is correspondingly increased. Under the same power, the gas production of two-stage compression is up to 15% than that of single-stage compression, which can achieve up to 15% energy saving effect.

双级压缩原理的优势

- 比单级压缩工作温度低,趋于更省功的等温压缩,理论节能8%。
- 每级压缩比更低,内泄露减少,容积率提升5%~8%。
- 利于调整每级转子达到更佳线速范围25~35m/s,获得更高压缩传递效率。

Advantages of the two-stage compression principle

- Compared with single-stage compression, isothermal compression tends to save more work and theoretical energy saving 8%.
- The compression ratio of each stage is lower, the internal leakage is reduced, and the volume ratio is increased by 5%~8%.
- It is beneficial to adjust the rotor of each stage to reach a better linear speed range of 25~35m/s to obtain a higher compression transfer efficiency.



双级压缩技术参数

TECHNICAL PARAMETERS OF TWO-STAGE COMPRESSION

参数	电机功率 (KW)	排气压力 (Mpa)	容积流量 (m ³ /min)	启动方式	出口管径	机组重量 (kg)	外形尺寸
LY-15-8	15	0.8	0.85~2.8	永磁 变频 软启动	RP11/2	700	1450*1050*1500
LY-15-10		1.0	0.79~2.4				
LY-15-13		1.3	0.64~2.2				
LY-22-8	22	0.8	1.3~4.1		RP11/2	790	1450*1050*1500
LY-22-10		1.0	1.11~3.5				
LY-22-13		1.3	1.0~3.2				
LY-30-8	30	0.8	1.83~6.3		RP11/2	1030	1500*1100*1650
LY-30-10		1.0	1.5~4.9				
LY-30-13		1.3	1.43~4.2				
LY-37-8	37	0.8	2.1~7.1		RP11/2	1120	1500*1100*1650
LY-37-10		1.0	1.7~5.8				
LY-37-13		1.3	1.5~5.4				
LY-45-8	45	0.8	2.9~9.7		RP2	2010	2060*1260*1590
LY-45-10		1.0	2.5~7.8				
LY-45-13		1.3	2.3~6.5				
LY-55-8	55	0.8	3.8~13.3		RP2	2230	2190*1380*1890
LY-55-10		1.0	2.9~9.6				
LY-55-13		1.3	2.5~8.6				
LY-75-8	75	0.8	4.5~16.5		RP2	2340	2400*1400*1950
LY-75-10		1.0	4.3~12.5				
LY-75-13		1.3	3.7~11.2				
LY-90-8	90	0.8	3.8~19.2		DN65	3220	2666*1370*1918
LY-90-10		1.0	3.4~16.9				
LY-90-13		1.3	2.9~14.3				
LY-110-8	110	0.8	4.5~23.1		DN65	3380	2650*1800*2050
LY-110-10		1.0	4.0~19.7				
LY-110-13		1.3	3.6~19.8				
LY-132-8	132	0.8	5.4~28.0		DN80	3480	2650*1800*2050
LY-132-10		1.0	4.5~23.5				
LY-132-13		1.3	4.0~19.8				
LY-160-8	160	0.8	6.5~33.6	DN80	3850	3400*2100*2000	
LY-160-10		1.0	6.0~30.0				
LY-160-13		1.3	5.0~23.8				
LY-185-8	185	0.8	7.0~38.4	DN100	500	3400*2100*1530	
LY-185-10		1.0	6.4~32.5				
LY-185-13		1.3	5.6~28.6				
LY-200-8	200	0.8	8.6~43.0	DN100	5450	3500*2100*2000	
LY-200-10		1.0	7.6~38.5				
LY-200-13		1.3	6.6~32.8				
LY-220-8	220	0.8	10.0~47.0	DN125	6590	4000*2100*1980	
LY-280-8		1.0	9.0~41.9				
LY-220-13		1.3	7.4~38.0				
LY-220-10	280	0.8	11.2~51.0	DN125	7280	4220*2230*2100(风冷) 3480*2220*2100(风冷)	
LY-280-10		1.0	10.4~45.0				
LY-280-13		1.3	10.0~40.0				

节能无油螺杆鼓风机

ENERGY-SAVING OIL-FREE SCREW BLOWER



「噪音低、能耗低、高效率，节能40%用电量」

性能介绍

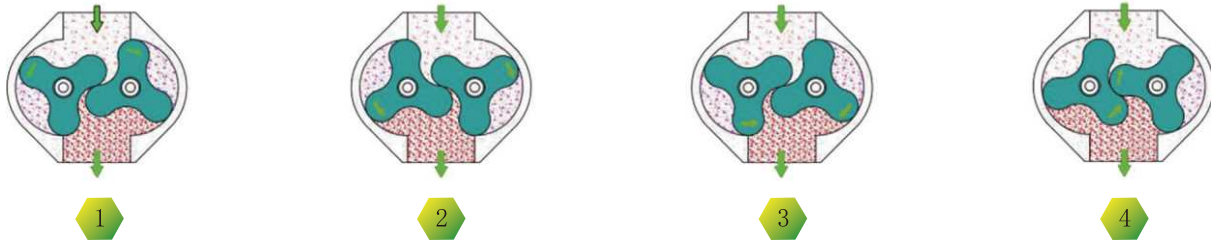
- 采用转子鼓风机设计的无油双螺杆主机优化的线型设计，使其具备更高的效率先进的涂层技术，使得转子间隙更小，提高了容积效率的同时，压力、有效的保护了转子，寿命更长采用世界知名品牌轴承以保障其可靠性。
- 采用国标5级精密级同步齿轮和驱动齿轮，保障可靠性和延长使用寿命独特的润滑和排油通道，保障轴承和齿轮得到良好的润滑和冷却，同时提升主机效率迷宫式密封+碳环式密封的组合来实现压缩腔与润滑油、气隔离，保障空气100%无油由于压缩气体无油润滑，使整机系统无需油气分离，结构更加简单。

Performance is introduced

- The optimized linear design of the oil-free twin screw main engine with rotor blower makes it have higher efficiency and advanced coating technology, which makes the rotor clearance smaller, improves the volume efficiency, and at the same time, effectively protects the rotor with pressure and longer service life. World-renowned bearings are adopted to ensure its reliability.
- Levels using national standard 5 precision synchronous gear and driven gear, guarantee the reliability and prolong the service life of the unique lubrication and oil discharge channel, ensuring bearing and gear to get the good lubrication and cooling, at the same time, promote efficiency of the host labyrinth seal + carbon ring seal combination to realize the compression chamber and lubricating oil, gas separation, guarantee 100% oil free air due to the compressed gas without oil lubrication, so the system without oil and gas separation, structure more simple.

罗茨鼓风机工作原理

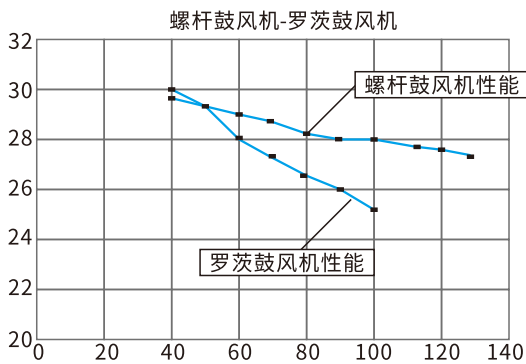
How roots blower works



①吸气过程。②-③内部恒压输送。④外部压缩、排气过程。

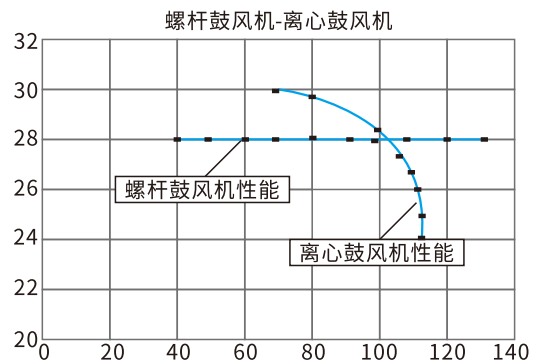


① 吸气过程。②-③内部压缩过程。④ 排气过程。



传统罗茨鼓风机
 在80Kpa压力下,提供1600m³/h的流量,
 所需平均能耗61KW

Traditional Roots blower
 At a pressure of 80Kpa, flow rate of
 1600m³/h is provided.
 The average energy consumption is 61KW



螺优无油螺杆鼓风机
 在80Kpa压力下,提供1600m³/h的流量,
 所需平均能耗42KW

Luoyou oil - free screw blower
 At a pressure of 80Kpa, flow rate of
 1600m³/h is provided.
 The average energy consumption is 42KW

节能无油螺杆鼓风机技术参数

TECHNICAL PARAMETERS OF ENERGY-SAVING OIL-FREE SCREW BLOWER

型号	电机功率 (KW)	排气压力 (bar)	容积流量 (m ³ /min)	出口尺寸	机组重量 (Kg)	外形尺寸
LY-11GF	11	0.6	6.5	DN125	1500	2100*1350*1570
		0.7	5.9			
		0.8	5.3			
		1.0	4.2			
		1.2	3.2			
LY-15GF	15	0.6	9.0	DN125	1600	2100*1350*1570
		0.7	8.0			
		0.8	7.5			
		1.0	6.0			
		1.2	5.0			
LY-22GF	22	0.6	16.0	DN125	1800	2200*1400*1600
		0.7	13.0			
		0.8	11.5			
		1.0	10.0			
		1.2	8.5			
		1.5	6.0			
LY-30GF	30	0.6	24.0	DN125	2000	2200*1400*1600
		0.7	18.9			
		0.8	17.0			
		1.0	14.0			
		1.2	11.3			
		1.5	9.0			
LY-37GF	37	0.6	28.0	DN200	2200	2650*1300*1830
		0.7	25.0			
		0.8	22.0			
		1.0	17.5			
		1.2	14.2			
		1.5	10.5			
LY-45GF	45	0.6	34.4	DN200	2200	2650*1300*1830
		0.7	32.0			
		0.8	30.0			
		1.0	23.0			
		1.2	18.0			
		1.5	14.0			
LY-55GF	55	0.6	40.9	DN200	2400	2900*1500*2000
		0.7	40.0			
		0.8	37.0			
		1.0	29.0			
		1.2	25.0			
		1.5	17.9			

型号	电机功率 (KW)	排气压力 (bar)	容积流量 (m ³ /min)	出口尺寸	机组重量 (kg)	外形尺寸
LY-75GF	75	0.6	60.0	DN200	2400	2900*1500*2000
		0.7	54.0			
		0.8	50.0			
		1.0	43.0			
		1.2	37.0			
		1.5	29.0			
LY-90GF	90	0.6	65.0	DN250	2600	3000*1650*2150
		0.7	56.0			
		0.8	61.0			
		1.0	52.0			
		1.2	45.0			
		1.5	36.0			
LY-110GF	110	0.6	83.0	DN250	2600	3000*1650*2150
		0.7	74.0			
		0.8	66.0			
		1.0	65.0			
		1.2	56.0			
		1.5	45.0			
LY-132GF	132	0.7	90.0	DN300	3000	3200*1800*2200
		0.8	83.0			
		1.0	69.0			
		1.2	56.0			
		1.5	53.0			
LY-160GF	160	1.0	86.0	DN300	3000	3200*1800*2200
		1.2	75.0			
		1.5	58.0			

应用领域

Application field

污水处理/Sewage treatment
 物料输送/ conveying
 纺织工程 / Textile engineering
 食品医疗行业/Food and Medical industry

生物制药 / biopharmaceutical
 镀锌/galvanized
 脱硫脱硝 /desulfurization and denitrification
 其他诸多领域/Many other areas

定制低压节能螺杆空压机 CUSTOMIZED LOW-VOLTAGE ENERGY-SAVING SCREW AIR COMPRESSOR



「低压定制/产气量大
效率高/更稳定」

针对不同行业特性进行个性化定制开发 Customized development for different industry characteristics



>纺织行业
针对用气量大,气压低,压力要求稳定、棉絮多等特点,对设备进行特别设计改良。
>Textile industry
For large amount of air, low pressure, pressure stability, cotton batting and so on. Yeah The equipment is specially designed and improved.



>水泥行业
针对气压低、气量大、用气环境恶劣等特点。
>Cement industry
For low pressure, large air volume, gas use adverse environment and other characteristics.

>陶瓷行业
针对陶瓷行业气量大,用气环境恶劣,粉尘多等特点。
>Ceramic industry
For the ceramic industry gas volume, with gas bad environment, dust and other characteristics.



>玻璃行业
针对该行业持续用气时间长、不能停机、气压低、气量大、用气环境恶劣等特点。
>Glass industry
In view of the long duration of gas consumption in this industry, Can not stop, low pressure, large air volume, use gas environment and other characteristics.



低压空压机技术参数

TECHNICAL PARAMETERS OF
LOW PRESSURE AIR COMPRESSOR

低压永磁变频螺杆机技术参数-0.5Mpa

Technical parameters of low-voltage permanent magnet variable frequency screw machine -0.5Mpa

型号	LY-22	LY-37	LY-45	LY-55	LY-75	LY-90	LY-110	LY-132	LY-160	LY-200	
排气压力(MPa)	0.5										
排气量(m ³ /min)	5.0	8.0	10.5	13.5	16.5	22.7	25.2	30.0	39.6	45.5	
排气功率(KW)	22	37	45	55	75	90	110	132	160	200	
排气接口	G1 1/2	DN50	DN50	DN50	DN65	DN80	DN80	DN100	DN100	DN125	
噪声(dB)	65±2	70±2	70±2	70±2	72±2	72±2	72±2	75±2	75±2	78±2	
重量(kg)	1050	1650	1950	2050	2150	2850	2980	3350	3900	5500	
外形尺寸	长(mm)	1600	1800	1900	1950	2000	2100	2550	2600	3000	3500
	宽(mm)	1000	1300	1350	1400	1580	1600	1700	1750	1750	2050
	高(mm)	1250	1500	1600	1650	1700	1800	2000	1900	1950	2100

低压永磁变频螺杆机技术参数-0.4Mpa

Technical parameters of low-voltage permanent magnet variable frequency screw machine -0.4Mpa

型号	LY-22	LY-37	LY-45	LY-55	LY-75	LY-90	LY-110	LY-132	LY-160	LY-200	
排气压力(MPa)	0.4										
排气量(m ³ /min)	6.0	9.5	12.5	15.0	19.5	23.5	27.2	34.0	40.0	50.0	
排气功率(KW)	22	37	45	55	75	90	110	132	160	200	
排气接口	G1 1/2	DN50	DN50	DN50	DN65	DN80	DN80	DN100	DN100	DN125	
噪声(dB)	65±2	70±2	70±2	70±2	72±2	72±2	72±2	75±2	75±2	78±2	
重量(kg)	1100	1700	1980	2100	2200	2920	3060	3350	4050	5650	
外形尺寸	长(mm)	1450	1700	1900	1950	2050	2650	2650	3190	3300	3960
	宽(mm)	1050	1400	1500	1580	1650	1700	1700	1750	1750	2050
	高(mm)	1300	1500	1600	1650	1750	1850	1850	1900	1950	2100

低压永磁变频螺杆机技术参数-0.3Mpa

Technical parameters of low-voltage permanent magnet variable frequency screw machine -0.3Mpa

型号	LY-22	LY-37	LY-45	LY-55	LY-75	LY-90	LY-110	LY-132	LY-160	LY-200	
排气压力(MPa)	0.3										
排气量(m ³ /min)	6.5	10.7	13.5	15.0	23.0	28.0	37.0	45	50	60.0	
排气功率(KW)	22	37	45	55	75	90	110	132	160	200	
排气接口	G2	DN50	DN50	DN65	DN80	DN80	DN100	DN125	DN150	DN150	
噪声(dB)	65±2	70±2	70±2	70±2	72±2	72±2	73±2	75±2	75±2	78±2	
重量(kg)	1350	1800	2050	2250	2850	3500	3800	3980	5600	5800	
外形尺寸	长(mm)	1550	1900	1950	2000	2000	2550	2850	3200	3960	4100
	宽(mm)	1050	1500	1580	1500	1550	1700	1750	1750	2050	2150
	高(mm)	1300	1600	1650	2000	2100	2100	2150	2150	2200	2200

激光切割专用螺杆空压机 LASER CUTTING SCREW AIR COMPRESSOR



「占地面积小/使用更便捷/空气更纯净」





产品特点

- 激光切割是一种新型高科技的切割技术，采用能量激光光束切割，具有切割效率高及加工端面平整的优势。在机械、五金及其他行业得到了广泛的应用。对于激光切割使用的气源（氧气、氮气、空气），空气具有了它独特的优势，使用成本低，切割某些材料可以超过氧气和氮气的效果，本系统已成功的用于激光切割行业。
- 激光切割组合式空压机的最大优点：占地空间小，运行平稳，压缩机空气处理纯净度高，完全符合激光切割使用要求。
- 激光切割对无油、无水、无尘的要求非常高，轻则对切割效果产生直接的影响，重则烧毁保护镜片和聚焦镜片，更严重的情况会让激光切割头报废。本公司对以上的要求针对性的进行了技术升级和改造，同时也和欧洲顶尖的过滤器厂家展开紧密的技术合作，完成了这一款激光切割组合空压系统，让配套激光机厂家和用户使用的放心。

Product features

- Laser cutting is a new kind of high-tech cutting technology, which USES energy laser beam to cut, and has the advantages of high cutting efficiency and smooth machining end face. It is widely used in machinery, hardware and other industries. For the air source used by laser cutting (oxygen, nitrogen, air), air has its unique advantages, low cost, cutting some materials can exceed the effect of oxygen and nitrogen, the system has been successfully used in the laser cutting industry.
- The biggest advantage of laser cutting combined air compressor: small space, smooth operation, high purity of compressor air processing, fully meet the requirements of laser cutting.
- Laser cutting has a very high requirement of oil-free, water-free and dust-free. In light cases, it has a direct impact on the cutting effect. In heavy cases, protective lenses and focusing lenses will be burned out. Based on the above requirements, our company has carried out technical upgrading and transformation, and at the same time, carried out close technical cooperation with the top filter manufacturers in Europe, and completed this laser cutting combined air pressure system, which makes the supporting laser machine manufacturers and users at ease.



VS



- 空间更节省：体积小，占空间小；
- 减少维护费用：省钱，省力更省心；
- 节省安装费用：无需安装，接电即可运行。
- More space saving: small volume, small space;
- Reduce maintenance costs: save money, save effort and worry;
- Save installation cost: no installation is required and can be operated by power connection.

- 空间占比大：需要建设一个空压站来运行；
- 维护及管路漏气多：管路多，压损大，耗能大；
- 安装费用大：安装繁琐，还需要准备多种供电电源。
- Large space proportion: it is necessary to build an air compressor station for operation;
- Maintenance and pipeline leakage: more pipelines, high pressure loss, high energy consumption;
- Expensive installation: cumbersome installation, but also need to prepare a variety of power supply.

激光切割专用压缩机技术参数

LASER CUTTING SPECIAL COMPRESSOR TECHNICAL PARAMETERS

激光切割专用空压系统技术参数(压力1.58Mpa)

Laser cutting special air pressure system technical parameters(Pressure 1.58Mpa)

注:JA:工频单台 JPM:永磁单台 JTA:工频组合一体机 JTPM:永磁组合一体机

参数	外形尺寸			电机功率 (kw)	重量 (kg)	排气量 (m ³ .min/Mpa)	冷却方式	噪音 dB(A)	出口管径
	长	宽	高						
LY-10JA/JPM	800	720	950	7.5	220	0.6/1.58	风冷	60±2	G 1/2
LY-15JA/JPM	950	800	1070	11	380	0.9/1.58	风冷	62±2	G 3/4
LY-20JA/JPM	950	800	1070	15	410	1.5/1.58	风冷	62±2	G 3/4
LY-30JA/JPM	1100	950	1350	22	650	2.2/1.58	风冷	65±2	G1 1/4
LY-40JA/JPM	1100	950	1350	30	720	3.0/1.58	风冷	66±2	G1 1/4
LY-50JA/JPM	1300	1100	1500	37	840	3.7/1.58	风冷	68±2	G1 1/2
LY-10JTA/JTPM	1480	750	1600	7.5	520	0.6/1.58	风冷	65±2	--
LY-15JTA/JTPM	1700	880	1850	11	840	0.9/1.58	风冷	65±2	--
LY-20JTA/JTPM	1700	880	1850	15	880	1.5/1.58	风冷	65±2	--
LY-30JTA/JTPM	2250	980	2050	22	1300	2.2/1.58	风冷	66±2	--

激光切割专用空压系统技术参数(压力1.8Mpa)

Laser cutting special air pressure system technical parameters(Pressure 1.8Mpa)

注:JA:工频单台 JPM:永磁单台 JTA:工频组合一体机 JTPM:永磁组合一体机

参数	外形尺寸			电机功率 (kw)	重量 (kg)	排气量 (m ³ .min/Mpa)	冷却方式	噪音 dB(A)	出口管径
	长	宽	高						
LY-10JA/JPM	800	720	950	7.5	220	0.59/1.8	风冷	60±2	G 1/2
LY-15JA/JPM	950	800	1070	11	380	0.89/1.8	风冷	62±2	G 3/4
LY-20JA/JPM	950	800	1070	15	410	1.48/1.8	风冷	62±2	G 3/4
LY-30JA/JPM	1100	950	1350	22	650	2.17/1.8	风冷	65±2	G1 1/4
LY-40JA/JPM	1100	950	1350	30	720	2.96/1.8	风冷	66±2	G1 1/4
LY-50JA/JPM	1300	1100	1500	37	840	3.66/1.8	风冷	68±2	G1 1/2
LY-10JTA/JTPM	1400	750	1600	7.5	520	0.59/1.8	风冷	65±2	--
LY-15JTA/JTPM	1550	880	1850	11	840	0.89/1.8	风冷	65±2	--
LY-20JTA/JTPM	1550	880	1850	15	880	1.48/1.8	风冷	65±2	--
LY-30JTA/JTPM	2100	980	2050	22	1300	2.17/1.8	风冷	66±2	--

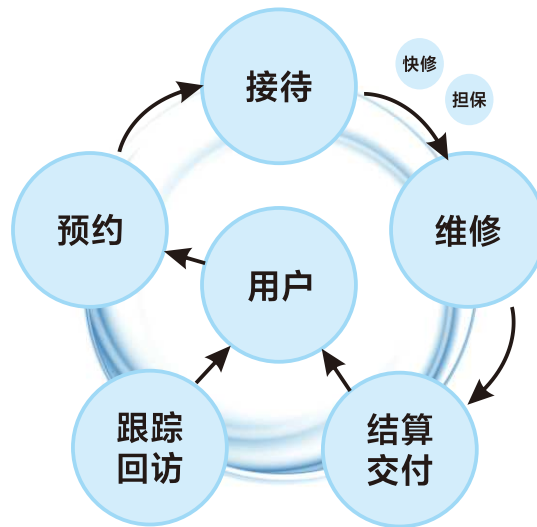


安心的售后

螺优非常重视售后服务,我们最大程度地关注客户对于服务和配件的所有要求,所有备件将在最短时间内送达用户指定的地点,此外,根据客户需要,我们将派遣服务工程师前往运作现场并提供帮助。

Secure after sale

Luoyou attaches great importance to after-sales service, we pay the greatest attention to customer's service and accessories. All spare parts will be delivered to the user's designated location in the shortest possible time. In addition, we will dispatch service engineers to the operation site and provide assistance according to customer needs.



快速专业的售后服务

螺优拥有专业的售后服务团队,在全国各地主要城市,均设有售后服务点,为客户提供及时专业的服务支持以及正品原装零件供应

- ◆ 提供专业的开机调试服务和用户培训指导;
- ◆ 4小时快速响应,24小时到达现场服务;
- ◆ 专业人员,专业工具提供故障诊断和维修服务;
- ◆ 定期上门巡检,提供计划性维护保养建议;
- ◆ 提供主动咨询服务,优化设备运行管理,提高能效;
- ◆ 提供节能改造优化服务。

Quick and professional after - sales service

Luo you has a professional after-sales service team, in major cities throughout the country, have set up after-sales service points, to provide timely professional customers Service support and original parts supply

- ◆ Provide professional startup debugging services and user training guidance;
- ◆ 4 hours quick response, 24 hours arrive at the scene service;
- ◆ Professional staff, professional tools to provide fault diagnosis and maintenance services;
- ◆ Regular visit inspection, provide planned maintenance advice;
- ◆ Provide active consulting services, optimize equipment operation and management, improve energy efficiency;
- ◆ To provide energy-saving renovation and optimization services.