

LG Series Screw Vacuum Pump

LG系列螺杆真空泵



LG-20



LG-50



LG-20 Anti-explosion



LG-50 Anti-explosion

01 PRESENTATION

LG series is developed by our company based on the absorption of numerous advance technologies over the world. It adopts the new generation equal-spacing screw technology, through a pair of parallel screws rotating in opposite directions within the pump chamber without mechanical friction, realizes the process of suction, compression and exhaust.

LG系列螺杆真空泵是我公司在吸收国外众多真空泵优越技术的基础上，采用新一代等距螺杆技术，通过一对平行螺杆在泵腔内反向无机械摩擦地旋转，形成吸气、压缩和排气的过程。

02 FEATURE

- **Oil free:** No lubricating oil in the chamber, suitable for the high requirement of clean vacuum environment.
清洁无油：泵腔内无润滑油，适用于需要清洁真空环境场合
- **Strong adaptability:** Can extract gases containing a large amount of water vapor and a small amount of dust. It is suitable for the applications in electronics and semiconductors, pharmaceuticals, petrochemicals and other industries.
适应性强：能够抽除含大量水蒸气及少量粉尘的气体，适用于电子半导体、制药、石化等行业
- **High reliability:** Few components, wear-resistant, can operate smoothly with low noise.
可靠性强：零部件少，无易损件，运转平稳，噪音低
- **Innovative design:** Application of new alloy materials, easy maintenance.
创新的型线设计：新型合金材料的应用，维护简便
- **Transformation of one patent results.**
一项发明专利成果转化

03 APPLICATION

- Oil and gas recycling 油气回收
- Canned preservation 罐装保鲜
- Vacuum coating 真空镀膜
- Molding of composite materials 复合材料成型
- Biopharmaceuticals 生物制药
- Electronic photovoltaic semiconductor 电子光伏半导体
- Food package & Fresh preservation 食品包装保鲜

04 TECHNICAL SPECIFICATION

Model 型号		LG-10	LG-20	LG-50	LG-80
Pumping Speed(m³/h) 峰值抽速		10	20	52	80
Ultimate pressure(Pa) 极限真空		≤5			
Rated power(V) 电压		220/380		380	
Frequency(Hz) 频率		50/60			
Rotary speed(rpm) 额定转速		2730/3400	2850/3400	2800/3400	2850/3400
Power supply(kw) 电机功率		0.75	1.1	2.2	3
Weight(without motor)(kg) 重量 (无电机)		48	55	90	110
Inlet connector 进气口尺寸		KF16	KF25	KF40	KF40
Outlet connector 排气口尺寸		KF16	KF25	KF40	KF40
Noise(dB(A) 噪音		68	63	65	66
Dimensions(mm) 外形尺寸		649*261*285	720*350*350	920*410*420	960*450*480
Cooling method 冷却方式		Air cooling(风冷)			
Lubricating oil 润滑油		T46 wear-resistant hydraulic oil(46号抗磨液压油)/Fluorinated oil(氟化油)			
Sealing configuration 密封配置	Inlet 进气端	Magnetic force(磁力密封)			
	Outlet 排气端	Lip + PTFE shaft seal(唇形密封+四氟轴封)			

NOTE:

- 1.Per JB/T 11716-2013 and related standards, value measured by capacitance diaphragm vacuum gauge; readings from Pirani gauge are 0.5-1 order of magnitude higher.
- 2.Motor acceleration may delay under undervoltage and minimum allowable ambient temperature; motor protection swtch may trip.
- 3.Explosion-proof motor optional.(Additional charges apply)
- 4.Noise value test standard: Refer to GB/T21271-2026