

Двухступенчатые винтовые воздушные компрессоры Серия SLPМ



Архангельск (8182)63-90-72
Астана (7172)727-132
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
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Иваново (4932)77-34-06

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Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81

Киргизия (996)312-96-26-47

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Пенза (8412)22-31-16

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TWO-STAGE SCREW AIR COMPRESSOR

GEARLESS TWO-IPM MOTORS TWO-STAGE SCREW REPLACING GEARED TWO-STAGE

THE LATEST SOLUTION OF AIRKING COMPRESSORS: GEARLESS & DOUBLE PERMANENT MAGNETIC MOTORS & HORIZONTAL ARRANGEMENT

This solution is from the cooperation between AIRKING and Europe's top technology R&D centers. Designed for market demand and operating conditions, the main components of the compressor system are imported from Europe, using European standard assembly line production, and take strict control of the production base in Guangzhou. The original import rate of all parts and accessories makes each one AIRKING air compressors' performance indicators synchronized with European standards.

 **GEARLESS**

 **TWO-IPM MOTORS**

 **TWO-STAGE SCREW**

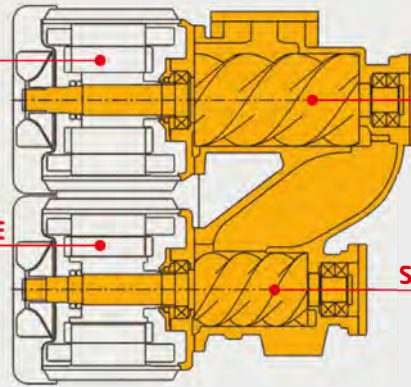
 **LOW ROTATION CENTER**

PRIMARY-STAGE IPM MOTOR

PRIMARY-STAGE AIR END

SECONDARY-STAGE IPM MOTOR

SECONDARY-STAGE AIR END



1

MORE STABLE

No Mechanical Transmission Trouble



● GEARLESS:

IPM motor and air end are connected with one-shaft.
Without gear box: no gear pitting, no broken-teeth.

● SOFT-START:

Less damage to electrical equipment.

● SPECIALLY DESIGN OF SEALED STRUCTURE:

100% to prevent oil leakage. Without leak troubles.

● LONG LIFE:

The high-performance permanent magnet materials.
The specialized corona-resistance enameled wire is applied to stator coil.

● COMPARED WITH THE GEARED TWO-STAGE AIR END:

Oil is effecting on the gear all time. Undering the long-term running in variable speed, the gear will have pitting, even teeth broken.

● SPECIALLY DESIGN OF BOX:

Independent air cooling.
Don't need to rely on the compressor cooling system.

● WITHOUT COUPLING:

Two independent IPM motors directly drive two stage air end.
One-shaft structure, without coupling danger.

Fixed Frequency Control

VSD Control

Frequently start,
the gear is easily broken.

Fixed gear ratio, speed decreased,
energy consumption is not synchronized.



2 MORE ENERGY SAVING

SLPM is driven by two independent IPM motors, intelligent control. During operation, by controlling the pressure between the two stage, the optimal rotating speed of two air outlets are automatically calculated to attain the optimal efficiency with optimal compression ratio of matching and balance, allowing compressor always under optimal operating condition.

COMPARED WITH THE GEARED TWO-STAGE AIR END:

Due to the fixed gear ratio, the geared two-stage air end only focus on the point efficiency. During the operation with variable speed and variable frequency, the pressure between the two stage cannot attain the best status. Speed decreased, the energy consumption is not synchronized.

SLPM Running Under The Top Efficiency All Time



SLPM FOCUS ON THE TOP EFFICIENCY DURING PRACTICAL USE THE RANGE OF FREQUENCY CONVERSION UP TO 30% TO 100%.

- Transmission efficiency 100%
Without transmission efficiency loss from gear
Without transmission efficiency loss from coupling
- Interstage pressure can be adjusted and constant pressure provided
- The host is always at the most energy-efficient speed

3 MORE EFFICIENCY

SLPM is with IPM motor, excellent performance.

Under low frequency, low speed, it can still keep high efficiency.

Compared with geared two-stage, **TRANSMISSION EFFICIENCY ONLY REACHED 97%**

One shaft structure, gearless, without coupling. **100% TRANSMISSION EFFICIENCY**, no transmission loss.

High Efficiency IE3 IPM Motor "0" Transmission Loss



4 MORE COMFORTABLE

Low Running Noise

- ✓ No Motor Bearing Noise
- ✓ No Gearbox Noise
- ✓ No Coupling Noise



5 MORE COMPACT

Smaller Motor Size

- Smaller motor size, one shaft structure can save more space.
- Motor IPM (Internal Permanent Magnet) Motor IP54.



SLPM SERIES TWO-STAGE SCREW AIR COMPRESSOR TECHNICAL PARAMETER LIST

Model	Exhaust Pressure (Mpa)	Air Flow (m³/min)	Motor Power (KW)	Size (L×W×H)mm	Outlet Size	Weight (Kg)
SLPM-50A	0.6	7.91	37	2000×1400×1800	G2"	1830
	0.8	7.67				
	1.0	6.55				
SLPM-60A	0.6	11.06	45	2000×1400×1800	G2"	1980
	0.8	9.92				
	1.0	8.97				
SLPM-75A	0.6	13.35	55	2000×1400×1800	G2"	2180
	0.8	12.44				
	1.0	10.88				
SLPM-100A	0.6	17.06	75	2000×1400×1800	G2"	2280
	0.8	15.61				
	1.0	14.06				
SLPM-120A	0.6	23.07	90	2200×1600×1850	G2 1/2"	3200
	0.8	20.42				
	1.0	18.64				
SLPM-150A	0.6	26.72	110	2200×1600×1850	G2 1/2"	3360
	0.8	24.75				
	1.0	20.94				
SLPM-175A	0.6	29.75	132	2600×1700×2100	DN80	3450
	0.8	27.2				
	1.0	23.79				
SLPM-220A	0.6	35.57	160	2600×1700×2100	DN80	3850
	0.8	32.69				
	1.0	27.99				

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