

TWO-STAGE SCREW AIR COMPRESSOR

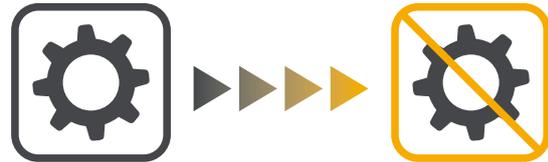
Airhorse[®]
— AIRHORSE COMPRESSOR —

REVOLUTION OF TWO-STAGE SCREW AIR COMPRESSOR

GEARLESS REPLACE GEARED

GEARED
TWO-STAGE SCREW

GEARLESS
TWO-IPM MOTORS
TWO-STAGE SCREW



I GEARBOX + COUPLING

II GEARBOX + NO COUPLING

III NO GEARBOX + UP/DOWN STRUCTURE

IV NO GEARBOX + DOUBLE PMSM MOTOR + HORIZONTAL STRUCTURE

AIRHORSE SLPM SERIES

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

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

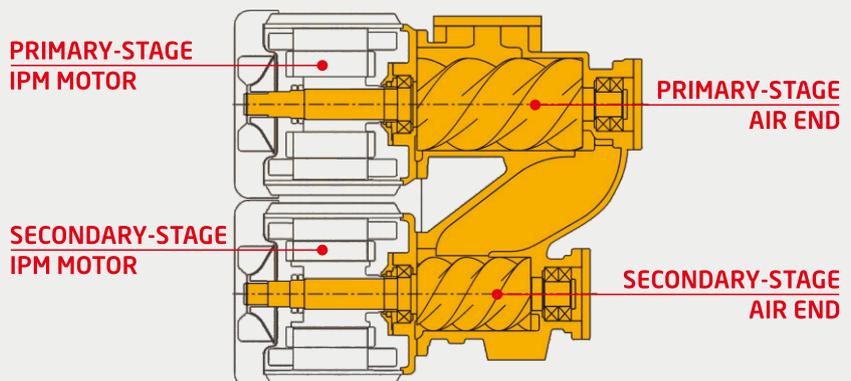
This solution is from the cooperation between AIRHORSE and Europe's top technology R&D centers. Designed for market demand and operating conditions, the main components of the compressor system are imported from Europe, using European standard assembly line production, and take strict control of the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

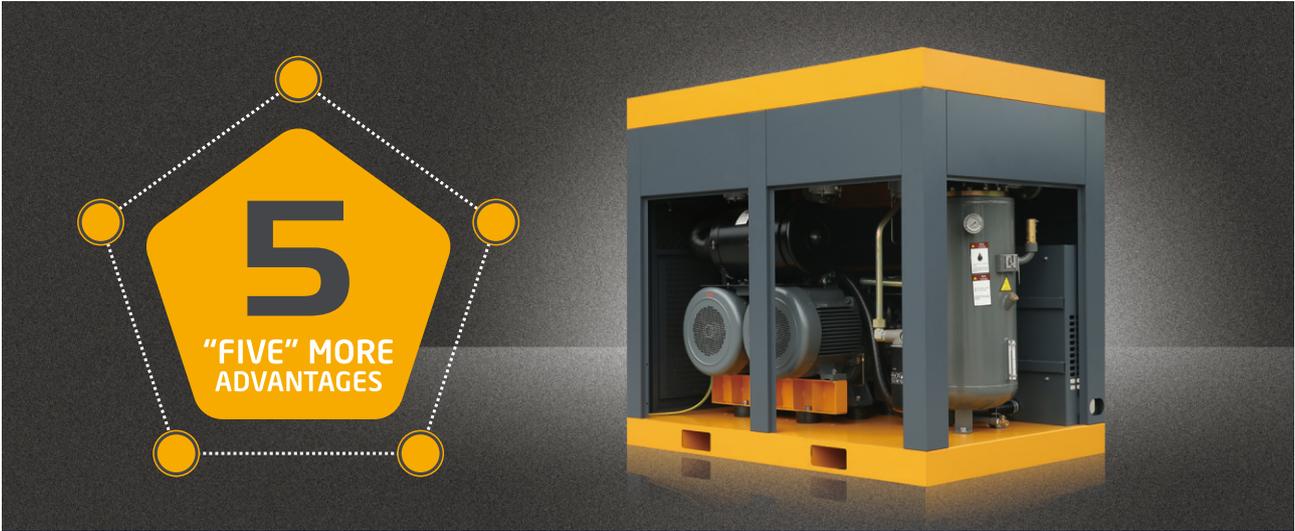
 GEARLESS

 TWO-IPM MOTORS

 TWO-STAGE SCREW

 LOW ROTATION CENTER





- ✔ MORE STABLE
- ✔ MORE COMPACT
- ✔ MORE EFFICIENT
- ✔ MORE COMFORTABLE
- ✔ MORE ENERGY SAVING

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 Running Under The Top Efficiency All Time



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

- Double Permanent Magnetic Motors, Continuously variable speed
- Transmission efficiency 100%
Without transmission efficiency loss from gear
Without transmission efficiency loss from coupling
- Interstage pressure can be adjusted and constant pressure achieved
- The host is always at the most energy-efficient speed

3 MORE EFFICIENCY

High Efficiency IE3 IPM Motor "0" Transmission Loss



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.

4 MORE COMFORTABLE

Low Running Noise



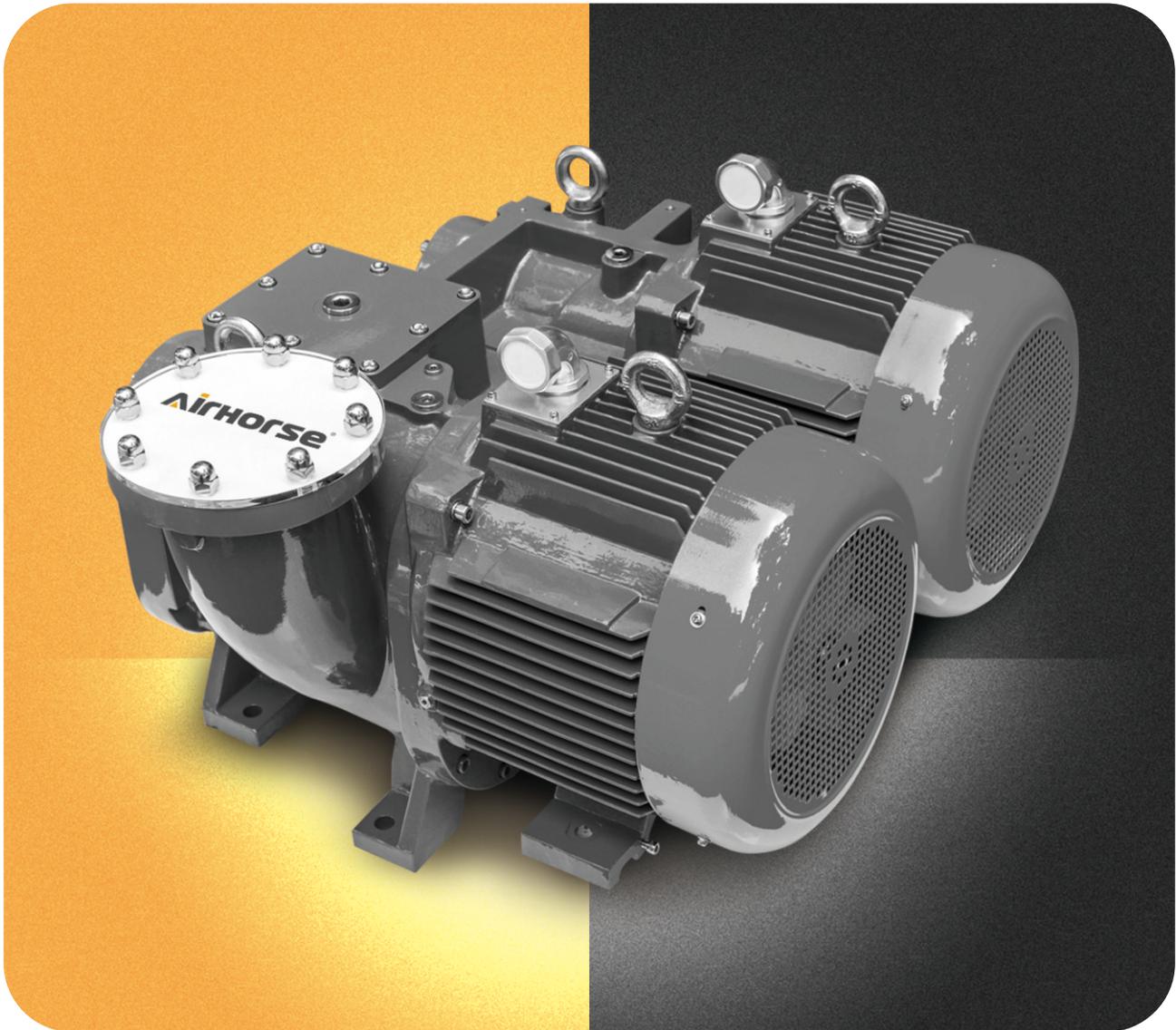
- ✔ No Motor Bearing Noise
- ✔ No Gearbox Noise
- ✔ No Coupling Noise

5 MORE COMPACT

Smaller Motor Size



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



MAINTENANCE OF AIR COMPRESSOR

We provide selective maintenance services for customer's equipment maintenance. The content is customized for your equipment. You can choose a single price maintenance or choose long-term parts supply or preventive maintenance contract, through the above contract, you can enjoy valued service and guarantee and overhauled and updated parts at competitive price. We also provide energy saving solution, such as energy recovery, frequency conversion, and energy-saving optimization systems, can greatly reduce your production cost.



Only use genuine parts and service of AirHorse Compressor Co., Ltd., to ensure the normal operation of the compressor group and normal life to the greatest extent.

SLPM SERIES TWO-STAGE SCREW AIR COMPRESSOR

TECHNICAL PARAMETER LIST

Model	Exhaust Pressure (Mpa)	Air Flow (m ³ /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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