



**INNOVATIVE
ENERGY SAVING
SCREW COMPRESSOR**

SHANGHAI SCREW COMPRESSOR CO., LTD.

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SCR 2021.11

PERMANENT MAGNETIC SCREW AIR COMPRESSOR

PM2 SERIES

7.5KW-15KW



SHANGHAI SCREW COMPRESSOR CO., LTD.

ABOUT SCR



■ CHINA HEADQUARTER

SHANGHAI SCREW COMPRESSOR CO.,LTD is a high tech Japanese joint venture with independent intellectual property, founded in 2000. SCR together with Anest Iwata focus on air compressor research and development, covering all aspects from manufacturing through to sales, service and technical support. SCR supply a complete range of products such as high efficiency permanent magnet variable speed air compressors, oil free screw compressors, oil free scroll compressors, bearing free and magnetic centrifugal blowers. The global sales and service network provide our customers with high-quality, energy efficient and environmentally friendly compressed air solutions.

SCR's statement of "power starts dreams" signifies the close relationship with their global partners, and suppliers. SCR is committed to building an industrial world with continuous improvement for both its customers, the environment and its employees.



■ JAPAN YOKOHAMA HEADQUARTERS



■ JAPAN FUKUSHIMA FACTORY

100000m²
Square meters factory

83
Country exported

50000
Global customers

35
Professional certifications

35
Sino-Japanese R&D team member

500
Global sales and service agents

91
National patents

10
Industry standards

21
Years of R&D

8%
Annual sales re-invested into R&D

140000
Production volume from 2000

PM2 SERIES



PM2 SERIES

MOTOR POWER:7.5-15KW
DISCHARGE AIRFLOW:0.46~2.4M³/MIN
PRESSURE:7/8/10BAR

Ultimate efficient inverter model

The SCR PM2 range of low noise screw compressors are designed for the most demanding applications and feature an inverter controlled IP65 permanent Magnet IE4 motor.

Tank Mounted	Wide range control	Low Noise
Compact and Easy Maintenance	<3ppm oil carryover	Up to 45°C Ambient condition

TYPICAL APPLICATIONS

Pneumatic Tools



Metal Processing



Printing Industry



Spraying Industry



Auto Repair Industry



Packaging Industry





01-IE4 Motor Efficiency as standard

- Reach IE4 efficiency standard;
- Oil-cooled motor;
- VSD: variable speed drive;
- IP65 protection;
- Maintenance free motor;
- Bearing free motor design.

02-New compressor airend design

- New improved rotor profile;
- Japanese R&D technology ;
- Designed to give many years of reliable operation.

03-Inlet filter

- Filtration accuracy upto 99.9%;
- Dust particles below 0.3 micron ;
- 2,000 hours service intervals.

04-Fan

- Low noise level;
- High capacity for optimized cooling;
- Low power consumption.



05-Innovative flux vector inverter

- Wide voltage design;
- Meets C3 and C3 EMC requirements;
- Built-in DC reactor;
- Independent cooling air duct design;
- Robust enclosure for trouble free operation.

06-Keypad

- High IP rating, supporting the air compressor AC drive to be used in various applications and environments;
- Full text multiple language controller;
- Intuitive physical button design;
- On board status monitoring;
- Easy To Operate.

07-Inlet valve

- High reliability;
- Life span more then 10 years;
- Full aluminum maintenance free design;
- Low load energy consumption in unloaded operation.

08-Oil filter

- High efficiency oil filter removes contaminants from the oil ;
- Oil particles can be controlled at 0.1 micron;
- Ensures a smooth and well-lubricated oil system.

09-Integrated tank

- Integrated tank with labyrinth structure, help reduce oil content, and better oil air separation efficiency;
- The oil content is less than 3 PPM;
- Save the space structure, make the whole layout more compact and reasonable;
- SCR unique patent with CE certification (option).

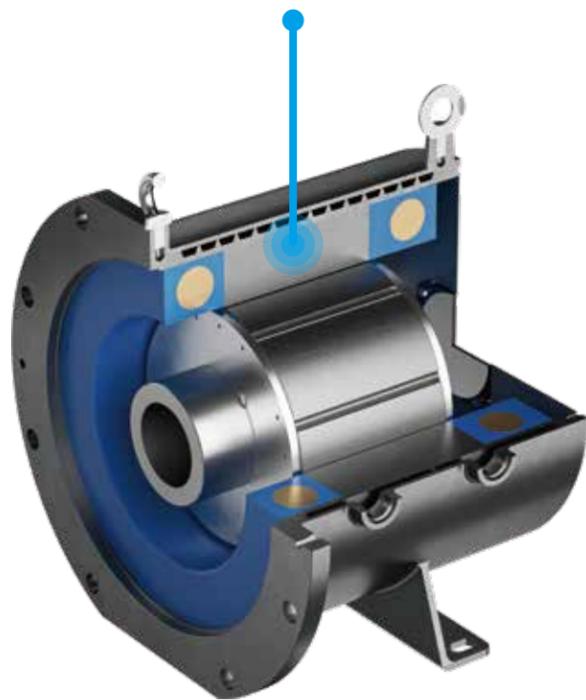
10-Oil separator

- The high efficiency oil separator ensures that the oil carry over is less than 3ppm.

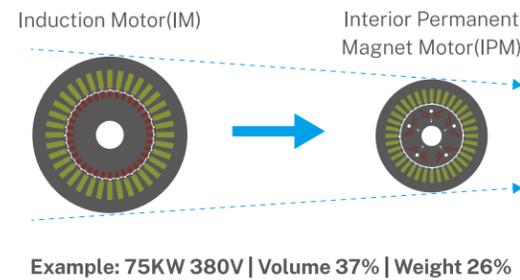
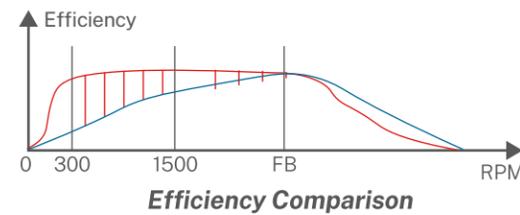
PM2 SERIES
EVEN
MORE EFFICIENT

SUPER PREMIUM EFFICIENCY PM MOTOR (IE4 EQUIVALENT)

Dual Layer Design For Optimum Lubricant Cooling



93.3%~**94.5%**
Growth of 1.2%

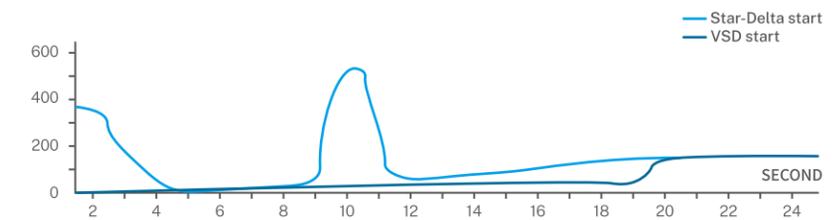


Oil-cooled motor	Fully enclosed IP65 protection
IE4 Efficiency as standard	VSD: variable speed drive
Optimal cooling for all speeds and ambient conditions	Bearing free motor requires zero maintenance.
UH series permanent magnets suitable upto 180 degrees°C.	F grade insulation and B grade temperature rise assessment
High temperature design prevents demagnetization.	

Pure Soft-start System As Standard

Soft Start System Reduces The Electric Current During Start Up

SCR APM Series adopts a soft start system for its start-up. The Inovance VSD maintains full load current on start up to 1.5 times FLC-Traditional motor starters such as direct on line starters and star delta starters burden the power supply due to the high peak start up current which can typically be 8-10 times FLC. With variable speed soft start system, the starting current never exceeds the rated value.



Seven major characteristics

- Intelligent PID flow regulation mode
- Accurate torque control
- Fast response speed for system pressure
- Fast acceleration and deceleration characteristics
- Closed loop dynamic control and high precision control
- Constant pressure control avoids over generating site air pressure

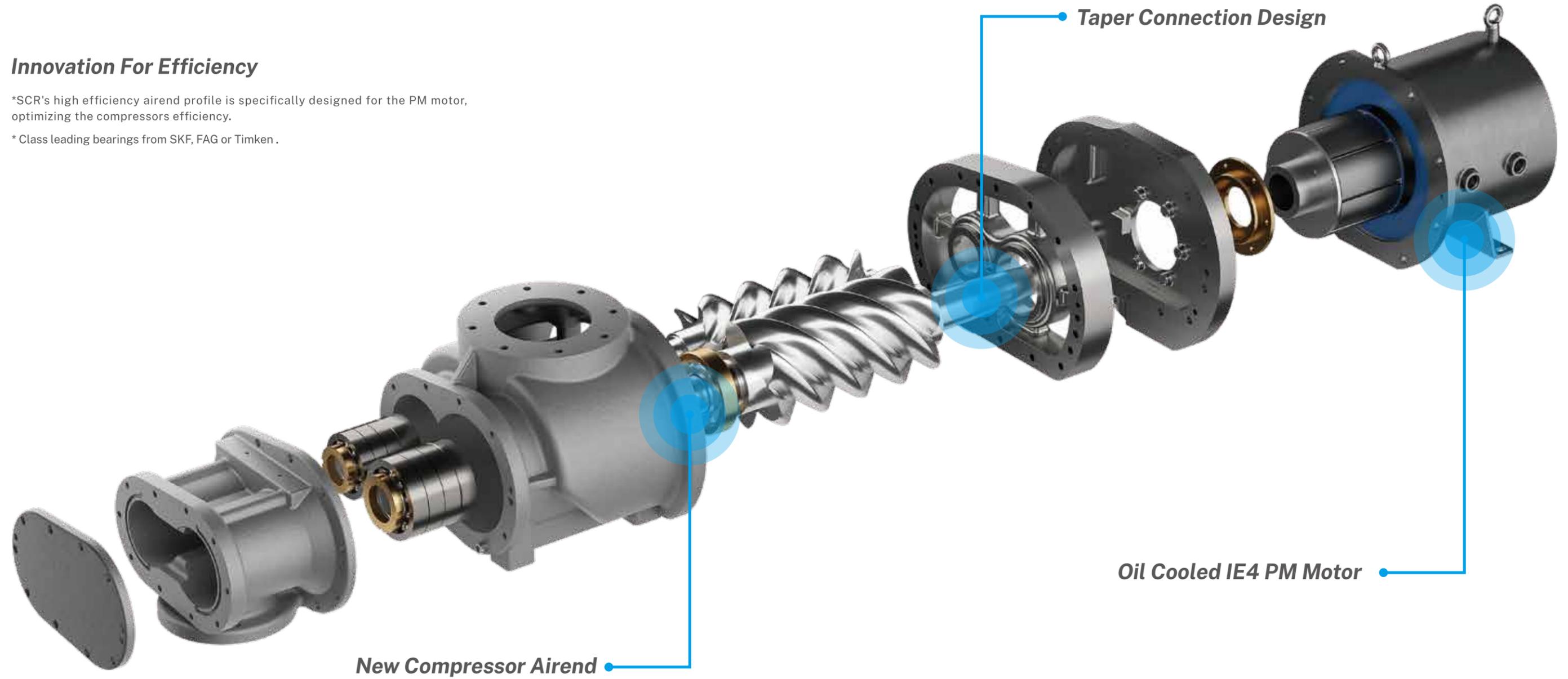


INNOVATIVE SCREW COMPRESSOR TECHNOLOGIES

Innovation For Efficiency

*SCR's high efficiency airend profile is specifically designed for the PM motor, optimizing the compressors efficiency.

* Class leading bearings from SKF, FAG or Timken .



PREMIUM QUALITY, PRECISION MACHINED

Meticulous assembly

All airends and compressor packages are assembled to the highest standards by SCR's qualified specialists in accordance with Japanese Quality Management System.



Performance testing

Each air compressor must undergo an operational inspection before leaving the factory to verify the performance of the compressor.



Precision milling and grinding

The new profiles rotors are machined on CNC profile grinders to micron accuracy.



Flexible machining centres

Rotors and casings for SCR airends are produced in a state of the art, climate controlled machining centres. Japanese quality management ensures unrivalled product quality.



Model	KW	HP	Capacity (m ³ /min)	Pressure (BAR)	Dimension (mm)	Weight (KG)	Size
SCR10PM2-7	7.5	10	0.46-1.15	7	1236*550*1040	280	RC 1/2
SCR10PM2-8			0.41-1.1	8			
SCR10PM2-10			0.57-0.95	10			
SCR15PM2-7	11	15	0.72-1.75	7	1260*650*1140	320	RC 3/4
SCR15PM2-8			0.69-1.7	8			
SCR15PM2-10			0.75-1.5	10			
SCR20PM2-7	15	20	0.96-2.4	7	1260*650*1140	340	RC 3/4
SCR20PM2-8			0.92-2.3	8			
SCR20PM2-10			1.0-2.0	10			

NOTE:

The capacity is measured as GB3853 standard.(equivalent to ISO1217 Annex C)

Standard voltage is 380V/50HZ/3P, other voltage is available.

The recommended best capacity range is 60%-100%.

Alpine/high altitude, high temperature, high humidity, high dust loads or other adverse working conditions will require specialized custom designs. These are available on special request.

We reserve the right to make changes and improvements to the design and appearance. Specifications may change without prior notice.



- QUALITY CERTIFICATE -



CE Certificate



EMC Certificate



UL Certificate



ISO Certificate



WORLDWIDE DISTRIBUTION CHANNELS

LEGEND:

- Headquarters
- Major global sales outlets

