



Enriching Lives

# KIRLOSKAR

## Gas Compression Systems





Corporate Office: Hadapsar, Pune.



### KIRLOSKAR Group

Kirloskar Group is one of the leading engineering Conglomerates in India. It has more than hundred years of proven expertise in specialist areas of Gas Solutions, Cooling Solutions, Power Solutions, Water Solutions & Air Solutions and Environmental Protection with a Portfolio of world class industrial products and turnkey solutions. Kirloskar holds the repute in the industry for its good business values and excellent customer satisfaction.

### KIRLOSKAR PNEUMATIC CO. LTD. (KPCL)

Founded in 1958 as a part of Kirloskar Group, Kirloskar Pneumatic Co. Ltd. (KPCL) is one of the most accomplished names in Oil and Gas Sector.

Due to its technological edge, KPCL has been enjoying customer preference for almost half a century, serving products & customised solutions in diverse fields like Gas Compression, Refrigeration, Marine, HVAC, CNG, Air Compression and Transmission.

### Our Business Units

#### PGS Division

- Process Gas System (Gas Compression System)
- CNG Packages & Solutions

#### ACR Division

- Refrigeration System
- Marine HVACR
- Vapour Absorption Chiller
- Compressors and Packages for industrial Refrigeration

- ACD - Air Compressor Division

- TRM - Transmission Division



IMS Certified Company  
**ISO 9001, ISO 14001  
 BS OHSAS 18001**

### Awards

- 'Employer Branding' Award
- CII 'Best Kaizen' Award
- CII Exim Bank Award - 'Significant Achievement in Business Excellence'
- CII 'Excellence in Energy Management' Award
- Quality circle Competition Awards
- Gold Winner Award - Quality Circle Forum of India





Factory / Works: Saswad, Pune.

### KIRLOSKAR - Gas Compression Systems

Kirloskar a Leading name in Customised Gas Compression Solutions provides products and complete solutions from concept to commissioning. Kirloskar provides Gas Compression Systems used for hydrocarbons and industrial gases which are a highly specialised market segment in the field of Gas Compression Systems.

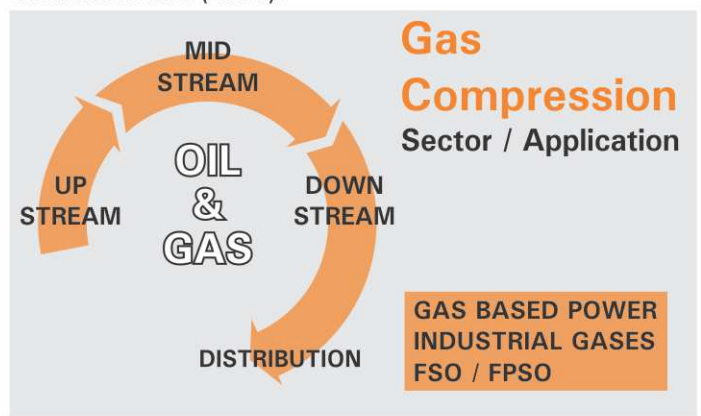
Our philosophy of 'Concept to Commissioning' has given us the edge and thus we continue to stay ahead of the increasingly stringent environmental, quality and safety standards that regulate the Industry.

Whatever may be the size and complexity of the project, KPCL provides cost effective solutions using latest technology from a factory assembled skid mounted unit to complex site erected unit incorporating PLC based control and monitoring systems. These Units give trouble free performance round the clock.

Our customised solutions feature activities like Designing, Manufacturing, Packaging, Installation, Commissioning, After Sales Service and Training.

### Total Solution provider for Gas Compression Systems

In our quest to be a total solution provider for Gas Compression Systems we also undertake setting up of Gas Compression Stations on EPC Basis covering Designing, Procurement , Construction, Installation, Commissioning, Training & Operation and Maintenance (24 x 7).





### System Design:

- Competent and trained team of dedicated engineers providing comprehensive in-house systems solutions with Innovative and pioneering R&D.
- Capability of detailed engineering and conformance with standards like API, IS, BS, ASME, OSHA, NACE, TEMA, OISD etc.
- Use of latest software like HTRI for heat exchanger design, CAESAR-II for pipe stress analysis and software for torsion, vibration, pulsation analysis, PDS/PDMS and UNISIM Process Simulation Software & many more...

### Experience with Reputed International Consultants / Inspection Agencies:

- Engineers India Ltd. (EIL), Technip, Bechtel, UHDE, Akeer Kvaerner, Lurgi, Tecnimont, PDIL, Mecon, Linde, ICB, Chemtex, Jacobs H&G, Toyo, Llyods Registrar, BV, DNV...

### Procurement:

- Team of professionals to procure system components with adherence to delivery schedules
- Dedicated sub-vendors for assured quality

### Manufacturing:

Dedicated infrastructure to support all the manufacturing processes.

- Fabrication
- Packaging
- Foundry (In-house)
- Testing facilities
- Sophisticated testing labs
- CNC machining centre
- Stress relieving furnances

### Quality Assurance:

- Dedicated team of QC engineers certified for various NDT examinations and stringent quality control as per pre-defined QAP (Quality Assurance Plan) for each project.
- Elaborate Technical & Quality Dossier for each project.

### Packaging:

- Capability to assemble at factory as well as at site.
- Supplied over 1900 packages in India and abroad.
- Completely factory wired ready to install Gas Compression Packages.

### Erection:

- Ingenious and committed personnel specialised in avenues like mechanical, electrical and instrumentation striving towards completion of the projects within stipulated time.

### Commissioning:

- Specialised, trained, dedicated commissioning engineers.

### Training:

- Special session for the operation and maintenance staff which covers the entire gamut from basic design philosophy upto the operation / maintenance / trouble shooting.

### After Market Support:

- Operation and Maintenance involving parts, overhaul and repairs.
- Spare Parts.
- Technical support.
- Service Network.

## Boil off Gas Compressor Package for SHELL (LNG Terminal)



### **KIRLOSKAR - High Speed Reciprocating Gas Compression Systems**

We provide Reciprocating Compressor Package conforming to ISO 13631 (Formerly API-11P).

**KPCL is Authorised Packager of Ariel USA Compressors.**

#### **Salient Features:**

- Reciprocating Gas Compressors ( Ariel USA ).
- Pressure range: 1 bar - 580 bar.
- Flow range: 50 cfm - 6000 cfm.
- Driver: Gas Engine / Electric Motor.
- Interstage cooling : Air cooled / Water cooled Heat Exchangers.
- Pulsation Dampners.
- Control Panel : Flame Proof / Purge Type.
- Piping & Instrumentation as per International Standards.

### **KIRLOSKAR - Low Speed Reciprocating Gas Compression Systems**

We provide Reciprocating Compressor Package conforming to API 618.

**KPCL is Authorised Packager of GE Nuovo Pignone Italy Compressors.**

#### **Salient Features:**

- Reciprocating Gas Compressors (GE Nuovo Pignone, Italy upto 5000 KW).
- Driver: Synchronous / Induction Motor.
- Interstage cooling : Shell & Tube type Heat Exchangers .
- Control Panel : Flame Proof / Purge Type .
- Pulsation Dampners.
- Piping and Instrumentation as per international standards.

### **KIRLOSKAR - High Speed Screw Type Gas Compression Systems**

We provide Reciprocating Compressor Package conforming to API 619.

**KPCL is Authorised Packager of Howden UK Compressors.**

#### **Salient Features:**

- Screw Gas Compressor ( Howden UK ).
- Oil flooded / Oil free Screw Compressors.
- Pressure range: 1 bar - 32 bar .
- Flow range: 100 cfm 6000 cfm.
- Driver: Gas Engine / Electric Motor.
- Heat Exchangers : Air Cooled / Water Cooled.
- Step less capacity control.
- Efficient Oil Separation System.
- Single & Dual Shaft Seal System.
- Control Panel : Flame Proof / Purge Type.

# KIRLOSKAR GAS COMPRESSION SYSTEMS



Enriching Lives

## MIDSTREAM

- Gas Pipeline Transmission
- Gas Storage - Injection
- Gas Storage - Withdrawal
- Gas Turbine Fuel Booster

## UPSTREAM

(Offshore / Onshore)

- Reinjection
- Gas Lift
- Gas Gathering
- Coal Bed Methane (CBM)
- Power Generation
- Fuel Gas
- LNG
- Flare Gas Recovery

## DOWNSTREAM

- Hydrocracking
- FCC & Alkylation
- Power Generation
- Hydrotreating
- Reforming & H<sub>2</sub> Plants
- PSA System
- Flare Gas Recovery

## DISTRIBUTION

- CNG
- LPG

## GAS BASED POWER

Fuel gas booster - To raise pressure level as feed to the Gas Turbines.

## INDUSTRIAL GASES

Gas Compression Solutions for other gases like Ethylene, CO<sub>2</sub>, Helium, Ammonia and host of other heavier hydrocarbons.

## FSO / FPSO

Gas Compression Applications



Gas Compressor Pkg. - Offshore platform, ONGC MHN



Gas Compressor Pkg., ONGC, Nazira



IPPI Ennore Flash Gas Compressor



Natural Gas Transmission Compr. Pkg.



CNG Package for NGV Station - Green Gas Ltd ( Nipco PLC ), Nigeria



Offshore Platform Flare Gas Recovery Pkg. - ONGC Neelam Hira



Ammonia Unloading & Holding Refrigeration System Green Dome Petrochemicals, Sharjah



Compressor Pkg. on FPSO LPG Petrostar, Indonesia



Flare Gas Recovery Unit- Zero Flare Project Oil & Natural Gas Corporation Ltd., Uran



Upstream Gas Booster Package for Adani Gas



PSA Tail Gas Compressor Pkg. - BCPL



Psa-Tail Gas Compressor Pkg. - IOCL Panipat



MRPL Gas Booster Pkg.



Gas Engine driven, Reciprocating Gas Compressor Package on Unmanned Offshore Platform.



CBM Screw Pkg.



Reciprocating Gas Compressor Pkg. Upstream, ONGC Ankleshwar



Boil Off Gas Compressor Pkg. India Oil Petronas P Ltd.



Fuel Gas Booster Screw Compressor Pkg. for BRPL



CBM Gas Compressor Pkg.



HMEL Off Gas Compressor Pkg.



HPCL Vizag, PSA Tail Gas Screw Compressor Pkg.



MNGL, Pune  
(Various type - 750, 1200 SCMh - Motor Driven, Gas Engine Driven)



MNGL, Pune  
(Various type - 750, 1200 SCMh - Motor Driven, Gas Engine Driven)



IGL Millennium Park, New Delhi  
(6 Packages - one of the largest fleet of NGV Passenger buses in the world)



BGL, Hyderabad  
(1900 SCMh)



IGL, Delhi  
(2400 SCMh)



Adani, Chandola  
(Various type - 750, 1200 SCMh  
Motor Driven, Gas Engine Driven)



NIPCO PLC, Nigeria  
(3500 SCMh- Gas Engine Driven)

### KIRLOSKAR - CNG Systems for NGV Filling Application

Kirloskar is currently one of the leading suppliers of CNG Compressor Packages for NGV filling applications to all the gas companies in India. We have an expertise in providing tailor made packages to meet our customer's needs. Each package tailored to the customer's requirement is tested in house and subjected to a full load test as per contract specification & as per ISO 13631 (Formerly API-11P).

#### Salient Features:

- Multistage Reciprocating Compressor
- Low vibrations and low power consumption
- Driver : Gas Engine / Electric Motor
- Wide range of products offering
- Suction Pressure Range : 0.55 bar - 60 bar
- Discharge Pressure : 250 bar
- Flow range : 300 SCMh - 3500 SCMh
- Flame Proof Control Panel
- Air cooled / Water cooled Heat Exchangers
- Pressure vessel (manufactured as per ASME section VIII, Div 1 with 100% radiography)
- Priority panel (3, 5 and 9 line)

#### Optional Features and Supplies

- Vibration Sensing Device
- Gas Detectors (L.E.L.)
- Flame Detectors (U.V.)
- Acoustic Enclosures
- Flow Metering Device
- Programmable Logic Control
- CO2 Flooding System
- Man Machine Interface for Parameter Display & Alarm
- High pressure cylinder storage cascade
- Dispenser for car and bus filling
- Station tubing fitting layout

# International Presence

● Compressor Installations 30,000+ Compressors, 40 Countries

▲ Offices/ Dealers/ Representative



## Refrigeration | Air | Gas > Compressors Packages & Systems

**Plants :** Hadapsar, Saswad, Nashik

**Offices (India) :** Hadapsar, Mumbai, Ahmedabad, Delhi, Lucknow, Chennai, Hyderabad, Bangalore, Kolkata

**Dealer's (India) :** Pune, Mumbai, Ahmedabad, Baroda, Vapi, Delhi, Agra, Lucknow, Chandigarh, Jaipur, Chennai, Secunderabad, Kochi, Bangalore, Kolkata

**Offices, Representatives (Overseas) :** Dubai, Saudi-Arabia, Oman, Egypt, Iraq, Thailand, Malaysia, Vietnam, Philippines, Indonesia, Myanmar, Australia, Turkey, Netherlands, Srilanka, Nepal, Bangladesh, South Africa, Nigeria, Abu-Dhabi, Kuwait, Italy, Russia

**Contact :** International Marketing : [acrpgmktg@kpcl.net](mailto:acrpgmktg@kpcl.net)  
Refrigeration Systems : [acrrref@kpcl.net](mailto:acrrref@kpcl.net)  
Gas Compression Systems / CNG Pkgs. : [pgs@kpcl.net](mailto:pgs@kpcl.net)



Enriching Lives

### KIRLOSKAR PNEUMATIC CO. LTD.

A Kirloskar Group Company

**Registered office:** Hadapsar Industrial Estate, Pune - 411 013 ( India)

**Tel:** + 91 20- 26727000 (Board) **Fax:** +91-20-26870514, 26870297

**Visit us at**  
[www.kirloskarkpcl.com](http://www.kirloskarkpcl.com)



ISO 9001  
ISO 14001  
BS OHSAS 18001

As we are constantly endeavoring to improve the performance of our product / equipment, we reserve the right to make alterations from time, and as such our products / equipment may from the detailed in this publication. For latest information you may get in touch with our regional sales offices.