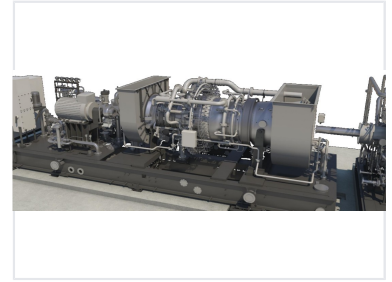


# Natural Gas Processing and Distribution Equipment

This equipment provides a comprehensive solution for natural gas processing and distribution. The modular system supports gas compression, processing, and distribution for industrial environments.



## ADDITIONAL IMAGES



## Overview

### Integrated Natural Gas Industrial Solutions

This comprehensive equipment suite covers the complete natural gas value chain, from wellhead conditioning and processing to distribution and power generation. Designed for high reliability and efficiency, these modular systems include advanced filtration, separation, and compression technologies suitable for demanding industrial environments. Our solutions support various applications, including gas gathering, storage, and filling stations, ensuring optimal performance and safety standards.

## Gas Processing & Separation

### THREE-PHASE SEPARATOR



#### Technical Parameters:

- Water content of oil in outlet  $\leq 1\%$ ;
- Oil content of sewage water in outlet  $\leq 30\text{mg/L}$ ;
- Liquid content of gas in outlet  $\leq 50\text{mg/Nm}^3$ .

#### Features:

- Two-stage coalescence and rectification technology improve the separation efficiency of oil, gas, water and sand;
- Wave proof is installed to control liquid fluctuation;
- Pneumatic regulation valve or self-balanced pressure regulator are used to realize liquid and pressure self-controlled and device operation smoothly.

Three-phase separator utilizing two-stage coalescence technology for efficient separation.

### FILTER SEPARATOR



#### Technical Parameters:

- Max. working pressure:  $\leq 15\text{MPa}$ ;
- 100% separation  $> 8\text{-}10\mu\text{m}$  droplets;
- 99.5% separation  $> 0.5\text{-}8\mu\text{m}$  droplets;
- 100% separation  $> 3\mu\text{m}$  dry solid particles;
- 99% separation  $0.5\text{-}3\mu\text{m}$  dry solid particles.

#### Features:

- Quick opening closure, easy to inspect and change filter elements;
- The blind ram has quick opening and closure structure which is more reliable and safety to operate.

Filter separator designed for high-pressure natural gas streams and effective particle removal.

### Filter Separator Performance

Metric	Specification
Max Working Pressure	$\leq 15\text{MPa}$
Droplet Separation ( $>8\text{-}10\mu\text{m}$ )	100%
Droplet Separation ( $0.5\text{-}8\mu\text{m}$ )	99.5%
Solid Particle Separation ( $>3\mu\text{m}$ )	100%
Solid Particle Separation ( $0.5\text{-}3\mu\text{m}$ )	99%

### Three-Phase Separator Efficiency

**1 %**

Max Water Content in Oil Outlet

**300 mg/L**

Max Oil Content in Sewage Water

**50 mg/Nm<sup>3</sup>**

Max Liquid Content in Gas Outlet

## Power Generation

### GAS TURBINE GENERATOR

	Rated power	Type of gas turbine	Outlet voltage	Supporting generators/engines
KTG-5.5	5.5MW	GE5-1	6.3/10.5kV(50HZ) 4.16/13.8kV(60HZ)	Engine: GE Generator: Siemens or other brands of China
KTG-11.4	11.4MW	GE10-1		
KTG-16.1	16.1MW	L716		
KTG-32.7	32.7MW	MS5002E		

**Features:** skid-mounted & modular design, well-adaptability, and operation steadily, low maintenance cost, long time interval between overhaul and low emission to meet various emission requirements, also we can provide customized design and service.

**Introduction:** GE gas turbine gensets as driver and relying on GE R&D ability and Kenul systemic integration ability KTG gas turbine gensets was born.

Modular gas turbine generator featuring high adaptability and low emissions.

### FUEL GAS INTERNAL COMBUSTION GENERATORS



	Frequency	Power range	Outlet voltage	Supporting generators/engines
KGW series	50HZ	140-3605kW	0.4/6.3/10.5kV	Engine: Waukesha Generator: LEIKON-SOMER, MARATHON or Stamford etc.
	60HZ	170-3215kW	0.48/4.16/13.8kV	
KGL series	50HZ	135-500kW	0.4kV	Engine: Liebherr Generator: LEIKON-SOMER, MARATHON or Stamford etc.
	60HZ	160-575kW	0.48kV	

**Features:** well adaptability, full automatic intelligent configuration, high reliability & durability, low emissions, environmental protection, cogeneration and energy-saving.

High-reliability internal combustion generators available in various power configurations.



Diesel generator



Container gensets



Sound-attenuating enclosure gensets



Trailer generating sets

Mobile and stationary power solutions including containerized and sound-attenuating enclosures.

### Gas Turbine Generator Range

- 5.5 MW Output
- 11.4 MW Output
- 16.1 MW Output
- 32.7 MW Output

### Fuel Gas Internal Combustion Series

Series	Power Range (50Hz)	Power Range (60Hz)
KGW Series	140-3605 kW	170-3215 kW
KGL Series	135-500 kW	160-575 kW

## Station Equipment

### Filling Station Equipment

CNG Compressor (L-type) • CNG Compressor (D-type) • LNG Filling Station • L-CNG Filling Station • Gasification Station

### Skid-Mounted Systems

Wellhead Gas Treatment, TEG Dehydration, Molecular Sieve Dehydration, Desulphurization

## Pressure Vessels & Infrastructure

### Pressure Vessels

- Storage Tank
- Filter Separator
- Pig Receiving/Serving Barrel
- CNG Tube Bundle Container
- Tank Container

### Transportation & Distribution Support

- Pressure Regulating Units
- Natural Gas Valves
- Natural Gas Pipe Fittings
- Gas Alarm Apparatus
- Gas Meters