

JOSHINING ENERGY AND TECHNOLOGY CO. LTD.



JOSHINING

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JOSHINING

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- Company introduction
- Our products and projects
- customer satisfaction Level
- Products catalogue





JOSHINING

Creating more possibilities

COMPANY PROFILE & PORTFOLIO



JOSHINING ENERGY AND TECHNOLOGY CO. LTD.

Nitrogen Generators (PSA, Membrane)

Oxygen generators (PSA, VPSA)

Hydrogen Generator (PSA, Ammonia Cracker, Methanol Cracker, water electrolyze)

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JOSHINING

INTRODUCTION



We, at Joshining Energy and Technology (Suzhou) Co. Ltd., are a privately held company located in Suzhou, Jiangsu Province. The company has the capacity to produce 400 nitrogen generators, 300 oxygen generators and 350 hydrogen generators annually. We are able to achieve this because of our strategic position on the market and our well-established relationships with factories we have invested in. In essence, we have the capacity to deliver on any size of project all over the world.

Our team is dedicated to ensuring that all client's needs are met, without compromise. We walk the whole journey with our clients, right from the beginning when inquiries are made to when the product arrives in the destination country.

We are developing agencies all over the world and welcome any party that wants to partner with us, as country representatives, to offer our high quality and competitively priced Gas generators to clients in their respective countries.



INTRODUCTION

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COMPANY PHILOSOPHY

- Creating more opportunities for our clients by being a one-stop professional solution for all their special gas needs

OUR RESPONSIBILITY

- To ensure that clients get value for their money for all their gas generation and recovery needs on site, and to contribute to the growth of the industry at large.

OUR CORE VALUES

- Integrity, Professionalism, Unity and Innovation

CORPORATE VISION

- To become the leading special gas supplier in the world

QUALITY CONTROL POLICY

From the designing stage, our company will ensure that efficiency, functionality, and durability are achieved in order to meet the requirements of our agents and clients, thus making our products among the best in the industry. Post-production audits will be effectively executed to give the customer the peace of mind of the job delivered.



Our Products

A. Nitrogen generators

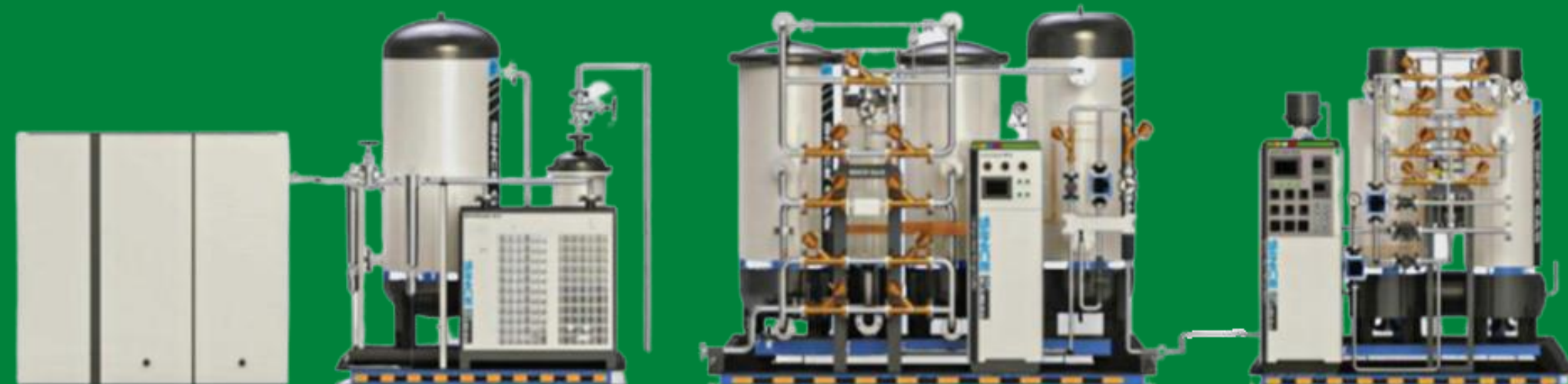
- PSA (Pressure Swing Adsorption) Nitrogen Generator
- Membrane base Nitrogen generator

B. Oxygen generators

- PSA Oxygen Generator
- VPS Oxygen Generator

C. Hydrogen generators

- Water Electrolyzer
- PSA Hydrogen Generator
- Methanol reforming
- Ammonia Cracker
- SMR (Steam Methane reforming)
- Hydrogen Recovery System





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PSA NITROGEN GENERATORS

Features

- Fast operating, provide the required nitrogen within 15~30min
- The equipment operates automatically in the whole process.
- Molecular sieves are efficiently filled, more compact, resulting in a longer life span.
- Pressure, purity and flow rate are adjustable to meet customer's needs
- Reasonable construction, high-tech process, safety and reliable, low consumption

Technical Index

- Capacity: 3-5500Nm³/h
- Purity: 95%-99.999%
- Oxygen Content: 3PPM - 5%
- Dew point: $\leq -60^{\circ}\text{C}$





JOSHINING

MEMBRANE NITROGEN GENERATORS

Features

We take compressed air as raw material and let it flow through one or many membrane module with each composed of millions of hollow fibers. Air and many gases (approximately 78% Nitrogen and 21% oxygen and 1% argon) of different penetrations rates pass through the membrane wall. Pressurized air, including oxygen, argon and water vapors will penetrate the membrane wall and leave dry nitrogen being discharged at the end of the membrane and sent to the site where the gas is being used

Technical Index

- Capacity: 3-3000Nm³/h
- Purity: 95%-99.9%
- Oxygen Content: 0.1% - 5%
- Dew point: $\leq -45^{\circ}\text{C}$





JOSHINING

PSA OXYGEN GENERATOR

Features

- Fast operating, provide the required oxygen gas within 15~30 minutes.
- Equipment operating automatically, no workers needed in the whole production process.
- Molecular sieves are efficiently filled more compact, resulting in longer life span.
- Tailor made the oxygen generator according to customers' individual project specifications and requirements, with high capacity, pressure and purity ranges.
- Compact construction, advanced high-tech process, safe and reliable, low consumption.

Technical Index

- Oxygen capacity: 5~150Nm³/hr
- Purity :93%±2
- Pressure: 0.1~0.2 Mpa (Adjustable)
- Dew Point: ≤ -40°C (Adjustable)





JOSHINING

VPSA OXYGEN GENERATOR

Features

- Fast operating, provide the required oxygen gas within 15~30 minutes.
- Equipment operating automatically, no workers needed in the whole production process.
- Molecular sieves are efficiently filled more compact, resulting in longer life span.
- Tailor made the oxygen generator according to customers' individual project specifications and requirements, with high capacity, pressure and purity ranges.
- Compact construction, advanced high-tech process, safe and reliable, low consumption.

Technical Index

- Oxygen capacity: 50~8000Nm³/hr
- Purity :93%±2
- Pressure: 0.05~0.2 Mpa





JOSHINING

HYDROGEN GENERATOR WATER ELECTROLYZER

Features

- Mature and advanced technology
- Lower power consumption and cost
- High pressure and purity
- No pollution and zero emissions

Technical Index

- Hydrogen capacity: 3 ~ 3000Nm³/hr (**ALK**)
- Hydrogen capacity: 1 ~ 250Nm³/hr (**PEM**)
- Purity: 99.9995%
- Oxygen Content: ≤2PPM
- Dew point: ≤-70°C





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Ammonia Cracker Hydrogen Generator

Features

- Low investment ;
- Mature and simple technology;
- Short process and low cost ;
- Low running cost ;
- Reliable and long life ;
- Easy Installation ;
- Easy maintenance and operation ;
- High Safety ;
- Well adjustability ;

Technical Index

- Hydrogen capacity: 5 ~ 500Nm³/hr
- Purity: 99.999% (Hydrogen)
- 75% Hydrogen, 25% Nitrogen
- Oxygen Content: ≤3PPM
- Dew point: ≤-70°C



STEAM METHANE REFORMING (SMR), HYDROGEN GENERATOR

Features

- Long service life
- High reliability
- High quality and safety standard
- High operation automation
- Prefabrication in skid or modules [less than 1,000 Nm³/h]
- Easy maintenance and accessibility
- Mini outsource could be achieved
- Middle pressure steam could be exported
- Flexible scope of work
- International certificates and standards are available, such as AMSE, ANSI, TR CU, IBR.

Technical Index

- Feedstock: Natural Gas, LNG, Naphtha, Light end of refinery
- Hydrogen capacity: 50 ~ 50,000 Nm³/hr
- Purity: 99.99% - 99.9999 vol %
- Pressure: 7 - 30 bar
- NG Consumption: 0.45 Nm³ / Nm³ - H₂



HYDROGEN PRODUCTION FROM METHANOL REFORMING

Features

- Long service life
- Wide range of the turndown ratio, commonly 30%~110%
- On-line maintenance is possible, if required High reliability
- On-line analyzers are available, if required High quality and safety standard
- International standards and certificates are applicable,
- Less maintenance
- Less energy consumption

Technical Index

- Dimension: Containerized design
- Power consumption: 0.1kwh/Nm³H₂
- Methanol consumption: 0.68kg/Nm³H₂
- Hydrogen flow: 50~5000Nm³/h
- Purity: 99.9995%(Hydrogen)
- Hydrogen outlet pressure: 1.3Mpa





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HYDROGEN PRODUCTION FROM PRESSURE SWING ADSORPTION

Features

- Long service life
- Switch-back to operation with reduced adsorbent
- Wide range of the turndown ratio, commonly 30% ~ 110%
- On-line maintenance is possible, if required High reliability
- On-line analyzers are available, if required High quality and safety standard
- International standards and certificates are applicable,
- Fully automatic operation and remote monitoring such as ASME/ANSI, TR CU.
- Pre-fabricated valve skid

Technical Index

- Feedstock: Syngas, Water gas, Hydrogen-rich gases (such as coke-oven gas, Off-gas from chlor-alkali plant)
- Hydrogen capacity: 5 ~ 100,000 Nm³/hr
- Purity: Typically, 99.99% higher purity could be tailored
- Pressure: 7 - 35 bar





JO SHINING

HYDROGEN RECOVERY SYSTEM

Features

- Originated by Since Gas company, the parent company of JoShining, won the national invention patent, patent No.: ZL2011 10318110.9
- Equipment operating automatically, no workers needed in the whole production process.
- High recovery efficiency, the hydrogen recovery rate can be up to 80%, verified by end users.
- Compact construction, advanced high-tech process, safe and reliable, low consumption.

Technical Index

- Capacity : 100 Nm³/hr - 3000 Nm³/hr
- Hydrogen Purity: 99.999%
- Recovery: 80%



SPARE PARTS



PRODUCT CATALOGUE





JOSHINING





JOSHINING

CUSTOMER SATISFACTION LEVEL



99%

This is the percentage of our customers are very satisfied with our customer service as well as our products delivered to them. Especially during these times, in COVID period, our company gained the trust of many client through excellent customer service and we supplied products of all types around the world.

80%

This is the percentage of clients who recommended our products to other companies and client.

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THANK YOU



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