



Laser Cutting Nitrogen Generator

Specialized for laser cutting



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SUZHOU HAIYU SEPARATION TECHNOLOGY CO.,LTD

About Us

23⁺ year

Experience in gas separation industry

50⁺ person

Professional and technical personnel

40⁺

Equipment export country

5000⁺

Accumulated equipment shipment quantity

Suzhou Haiyu Separation Technology Co., Ltd. is a leading high-tech company specializing in air separation solutions for nitrogen, oxygen, and supporting equipment. Building on the advanced research of the Chinese Academy of Sciences, we focus on cutting-edge gas separation and purification technologies to deliver innovative, energy-efficient, and reliable solutions for our customers.

Our product portfolio includes oxygen, nitrogen, and argon air separation systems (both gas and liquid), natural gas liquefaction plants, high-purity gas purification units, and tail gas recovery systems.

Haiyu products are trusted across a wide range of industries — from metallurgy, petrochemicals, and coal gasification to electronics, shipbuilding, pharmaceuticals, building materials, magnetic materials, textiles, and heat treatment. With a strong presence throughout China and exports to over 40 countries across the Americas, Europe, Asia, and Africa, we are proud to serve clients worldwide with safe, efficient, and intelligent solutions.

Cooperation partners





Laser Cutting Nitrogen Generator

Laser Cutting Nitrogen Generator

Our laser Cutting Nitrogen Generator features an advanced modular design, allowing the system to be flexibly expanded to meet your exact production needs. By simply adding standard nitrogen modules, different levels of nitrogen output can be achieved with ease. Compared with traditional twin-tower systems, it offers greater scalability and easier upgrades.

The equipment replaces conventional twin-tank pressure vessels with standardized, non-pressurized modules — ensuring higher safety, simpler maintenance, and an overall improved user experience. Its compact design saves significant space, adapts easily to standard facilities, and allows for convenient transport, relocation, and fast installation. This makes it an efficient nitrogen solution tailored for modern industrial environments.

The laser Cutting Nitrogen Generator is especially well-suited for the laser cutting industry. When nitrogen is used as an assist gas, it creates a protective atmosphere around the molten metal, preventing oxidation and avoiding oxide layer formation — enabling truly oxidation-free cutting. With nitrogen purity ranging from 90% to 99.99%, it can meet the demands of cutting plates of varying thicknesses while ensuring sufficient gas flow.

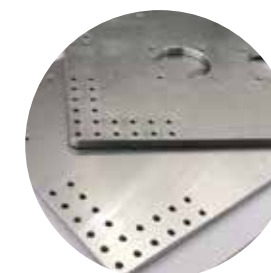
90%

Carbon steel sheet



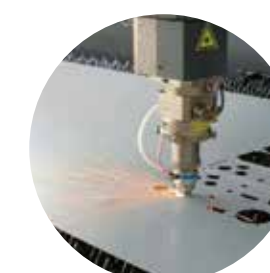
95%

Aluminum sheet



99.99%

Stainless sheet



Key Advantages of the Laser Cutting Nitrogen Generator

1

Cost Efficiency

Significantly reduces nitrogen production costs.

4

Modular Flexibility

Expand on demand to meet different production requirements.

2

High Scalability

Easier to upgrade and expand compared with traditional twin-tower systems.

5

Innovative Structure

Non-pressurized module design ensures greater safety and easier maintenance.

3

Space-Saving Design

Compact footprint that fits seamlessly into standard facilities.

6

Easy Installation

Flexible transport, quick setup, and adaptable to diverse industrial environments.



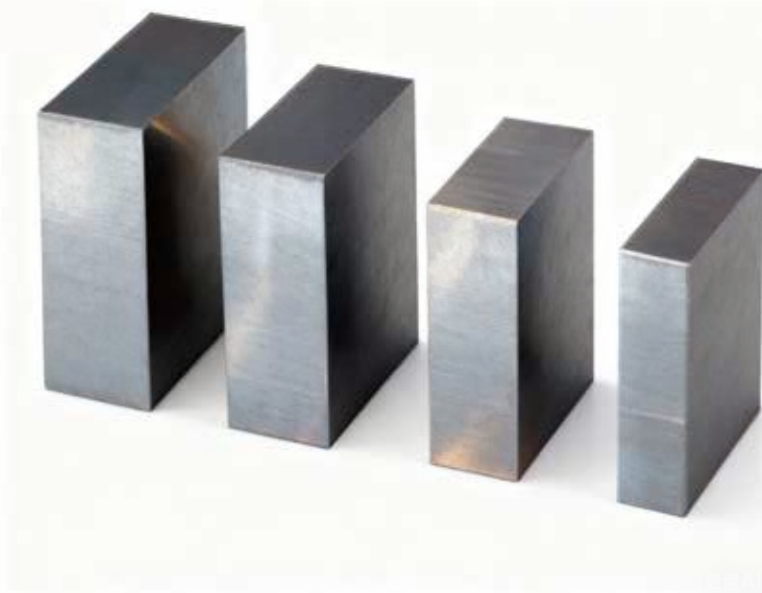
Laser Cutting Nitrogen Generator Selection Table

Model	Purity	Compatible Laser Cutting Machine Power	Pressure (MPa)	Compatible Cutting Materials	Air Compressor Model	Nitrogen Generator Power	Total System Power (with Air Compressor)
HY-JPN2020	90%–99.99%	3000W–6000W	1.0–1.4	Carbon Steel(3–6mm)	15KW	0.5KW	17KW
HY-JPN2040	90%–99.99%	6000W–10000W	1.0–1.4	Carbon Steel(6–12mm)	37KW	0.5KW	39KW
HY-JPN2080	90%–99.99%	10000W–30000W	1.0–1.4	Carbon Steel(10–30mm)	37KW	0.5KW	39KW
HY-JPN2120	90%–99.99%	40000W–60000W	1.0–1.4	Carbon Steel(35–50mm)	55KW	0.5KW	58KW
HY-JPN2160	90%–99.99%	60000W above	1.0–1.4	Carbon Steel(50mm以上)	75KW	0.5KW	78KW
HY-JMN1010	90%–95%	10000W–30000W	1.0–1.4	Carbon Steel(10–30mm)	37KW	0.5KW	39KW
HY-JMN1020	90%–95%	40000W–60000W	1.0–1.4	Carbon Steel(35–50mm)	55KW	0.5KW	58KW
HY-JPN2080	99.99%	1000W–3000W Nozzle Designed for Stainless Steel Cutting 2.0/2.5/3.0	1.0–1.4	Stainless Steel(1–3mm)	22KW	0.5KW	23.5KW
HY-JPN2160	99.99%	3000W/6000W/8000W Nozzle Designed for Stainless Steel Cutting 2.0/2.5/3.0	1.0–1.4	Stainless Steel(3–8mm)	37KW	0.5KW	39KW
HY-JPN2300	99.99%	8000W–12000W Nozzle Designed for Stainless Steel Cutting 2.0/2.5/3.0/5.0	1.0–1.4	Stainless Steel(8–15mm)	55KW	0.5KW	58KW
HY-JPN120–49Twin tower nitrogen generator and booster	99.99%	12000W–30000W	1.6–2.0	Stainless Steel(12–40mm)	75KW	0.5KW	93KW
HY-JPN150–49Twin tower nitrogen generator and booster	99.99%	40000W–60000W	1.6–2.0	Stainless Steel(30–60mm)	75KW	0.5KW	103KW
HY-JPN200–49Twin tower nitrogen generator and booster	99.99%	60000W above	1.6–2.0	Stainless Steel(60mm以上)	110KW	0.5KW	140KW



Sample cutting diagram

Gas source	Nitrogen	liquid nitrogen	Air compressor
Cutting effect image			



Carbon steel sheet

1000W-3000W
Nozzle Designed for Stainless Steel
Cutting 2.0/2.5/3.0

3000W-6000W
Nozzle Designed for Stainless Steel
Cutting 2.0/2.5/3.0

Carbon steel sheet

Air cutting

Nitrogen cutting

Stainless sheet

Air cutting

Nitrogen cutting

Stainless sheet

4000W-6000W-8000W
Nozzle Designed for Stainless Steel
Cutting 2.0/2.5/3.0

