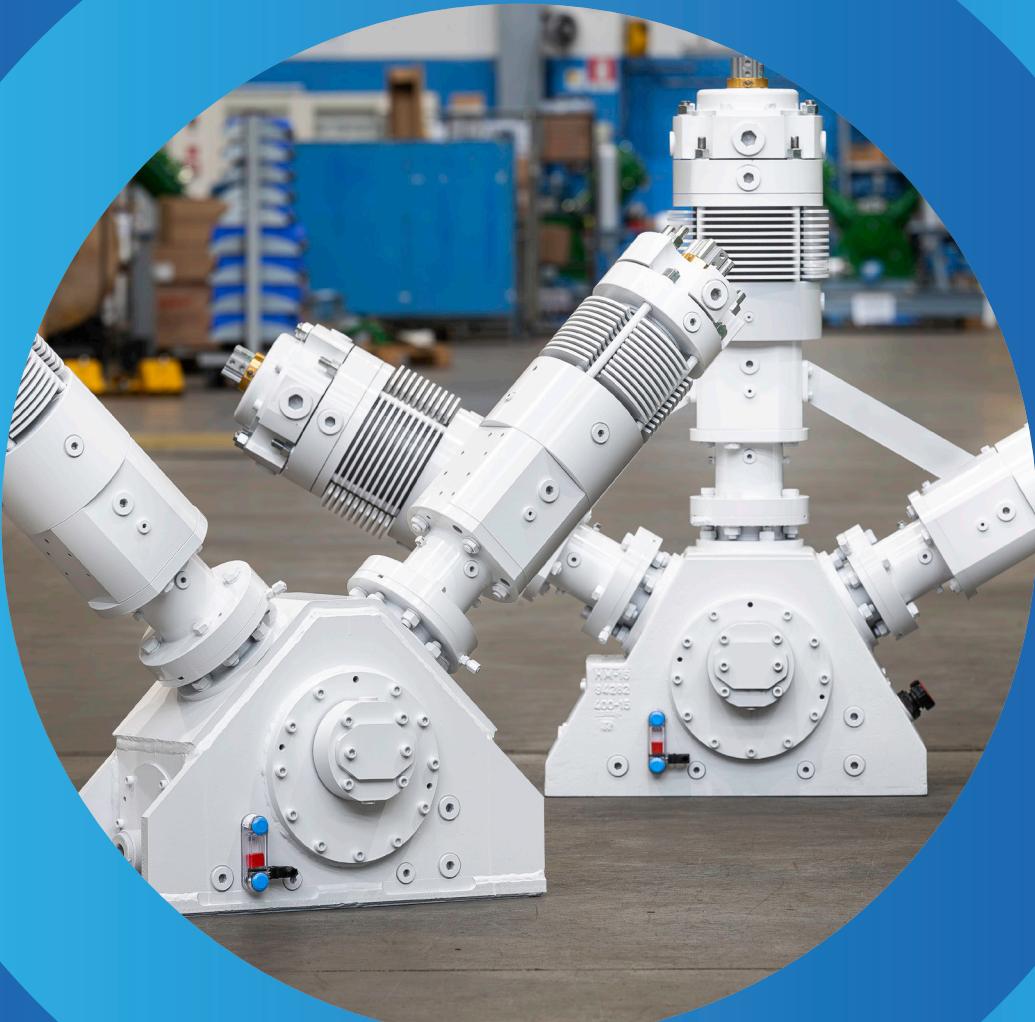


# Hydrogen

.....  
RECIPROCATING GAS COMPRESSORS

MADE & DESIGNED IN ITALY 



Via Ponticelli, 5-7, 43029  
Traversetolo (PR), Italy



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# Since 1969



1969

## FOUNDATION

.....

Dr. Carlo Bauzone founded Fornovo Gas, creating a company that immediately stood out for its innovation and passion for gas compression.

2004

## FIRST COMPRESSOR

.....

The first reciprocating compressor, fully developed with Fornovo Gas technology, is introduced, marking a crucial moment in our innovation journey.

2009

## CERTIFICATIONS

.....

Fornovo Gas earns ISO 9001, ISO 14001, and ISO 45001 certifications, affirming its commitment to excellence and quality.

**2019****EXPANSION**

Fornovo Gas compressors are now operational in 60 countries, spreading our technology worldwide.

**2021****HYDROGEN**

The range of reciprocating compressors for hydrogen is launched, marking another significant milestone in our mission to support the energy transition.

**2024****TODAY**

Fornovo Gas, a certified Benefit Society, continues to innovate in sustainable solutions. With a strong commitment to carbon neutrality by 2030, the company expands its international presence, driving the global energy transition.

# About Us

For over **55 years**, Fornovo Gas has been synonymous with **innovation, sustainability**, and a strong sense of family passion.

Founded as a **family-run business**, our company has grown into a **global leader** in the **design and production of reciprocating gas compressors**.

Delivering **high-performance, customized solutions** for a wide range of applications: Biogas, Biomethane, CO<sub>2</sub>, Industry, CNG, Hydrogen, and more...

With a **worldwide network** of partners and clients, we continue to innovate and expand while staying true to the values that have brought us this far:

Meticulous **attention to detail**, unwavering **dedication**, and a **commitment** to delivering solutions that meet today's needs while anticipating the challenges of tomorrow.

## Benefit Society

Since 2022, Fornovo Gas has been a **Benefit Society**.

This decision strengthens our commitment to combining industrial innovation with ambitious **environmental, social, and governance (ESG) goals**.

As a Benefit Company, we align ethical responsibility with tangible results: delivering advanced technologies that **respect the environment, support sustainable development, and create value** for our clients, communities, and people.

This model allows us to provide cutting-edge, reliable solutions while embracing a more **responsible vision** for the future, a path toward progress that benefits everyone.

## Our Numbers

**3000+**

COMPRESSORS  
INSTALLED  
WORLD WIDE

**20 %**

STEADY GROWTH  
IN ORDERS

**120**

OVER 120  
EMPLOYEES

**60**

OPERATING IN  
MORE THAN 60  
COUNTRIES

**2**

AMAZING  
DOGS

# Our Values

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## QUALITY AND RELIABILITY

.....

Our compressors are designed and manufactured in Italy, ensuring top-notch **Made in Italy** quality, reliability, and performance.



## TECHNOLOGICAL INNOVATION

.....

Revolutionary **oil-free compressors**: the clean, powerful choice for tomorrow's industries.



## TAILOR MADE

.....

Every client is **unique**, and so is every solution we deliver.



## CORPORATE SUSTAINABILITY

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Operating with a focus on **sustainability**, delivering compressors designed for a greener future.



## PARTNERSHIP AND COLLABORATION

.....

We believe **teamwork** is the key to overcoming energy challenges.



## FAMILY TRADITION

.....

A **family-run business** that puts people first, fostering strong and lasting relationships with clients and partners.

## The White Twins

.....

We're not just experts in gas compression...  
**WE'RE A TEAM !**

**Sonny** and **Mizu**, our beloved office dogs, are proud members of the **Fornovo Gas family**.

With their boundless energy and loyalty, they embody our core values of **dedication**, **reliability**, and **teamwork**.



# Our Products

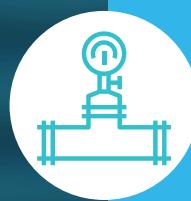
POWER kW	MODEL	Bore (mm)	Acting Strokes (mm)	MAWP (bar g)	Cooling air	Cylinder Type	APPLICATION											
							CH4	CH4 Options	N2	CO2	Sour Gas	Bio CH4	CH4	CH4 Options	N2	CO2	Sour Gas	Toxic Gas
1800	<b>DA500</b>	500 400 300	DOUBLE 220 ACTING 185 150 115 370-190 240-140 160-80 100-55	17,5 34,7 62 70,5 100 140 275 48 143 275 500	air liquid	LUBE	B-C	B-C	B-C	B-C	B-C	B-C	B-C	B-C	B-C	B-C	B-C	B-C
315	<b>DA300</b>	320 240 150 90 90 200-130 100-50 100-50	DOUBLE ACTING 100 100 220 90 275 375	10 40 90 133 220 90 275 500	air	OIL FREE	B	B	B	B	B	B	B	B	B	B	B	B
55	<b>SA200</b>	150 80 50-25 40-20	SINGLE ACTING TANDEM TANDEM	50 100 306 500	air	NO LUBE	B-C	B-C	B-C	B-C	B-C	B-C	B-C	B-C	B-C	B-C	B-C	B-C
7	<b>SA50</b>	65 45 37	SINGLE ACTING	14 14 42	air	OIL LESS	-	-	-	-	-	-	-	-	-	-	-	-



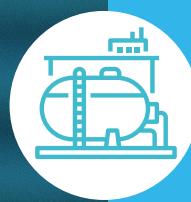
## Hydrogen

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IN 2021, FORNOVO GAS LAUNCHED A DEDICATED RANGE OF ALTERNATIVE COMPRESSORS SPECIFICALLY DESIGNED FOR HYDROGEN. THESE COMPRESSORS ARE NOW TRUSTED SOLUTIONS ACROSS VARIOUS APPLICATIONS, INCLUDING :



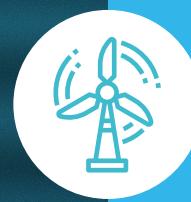
### PIPELINE INJECTION



### INDUSTRIAL ENERGY - FEEDSTOCK



### SYNGAS



### POWER TO GAS

Match with 1 MW Electrolyzer

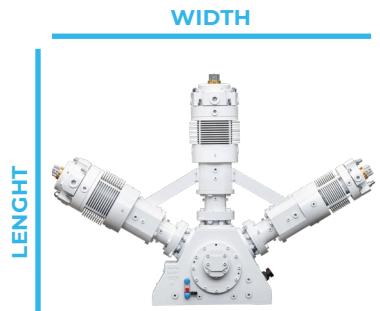
## The Product

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### VERTICAL RECIPROCATING COMPRESSOR

The **SA200** is a high-performance **oil-free reciprocating compressor** designed for demanding hydrogen applications.

Engineered for **efficiency**, **reliability**, and **safety**, it features a **modular design** and precision components, ensuring **optimal operation** and **compliance** with **industry standards**, ideal for industrial and renewable energy projects.



Dimensions: 1740 x 440mm



# SA200 HYD

## MAIN Specifications

- > **OUTLET PRESSURE**  
Up to 450 bar
- > **POWER**  
Up to 55 kW
- > **FLOW RATE**  
Up to 100 kg/h
- > **COMPRESSION STAGES**  
Up to 4

# Main Features

.....



## DISTANCE PIECE, PRESSURE PACKINGS AND PISTON RODS

**Distance piece and pressure packing :** Flushed with inert gas (Nitrogen) to ensure safety and prevent leakage to the environment

**Double distance piece and treated piston rods:** Specially engineered to prevent hydrogen embrittlement, ensuring durability and reliability in hydrogen applications.



## VALVES, CYLINDER HEAD AND SEALS

**Cylinder heads, seals and gaskets:** Made from hydrogen-specific materials to minimise leakage and improve system efficiency.

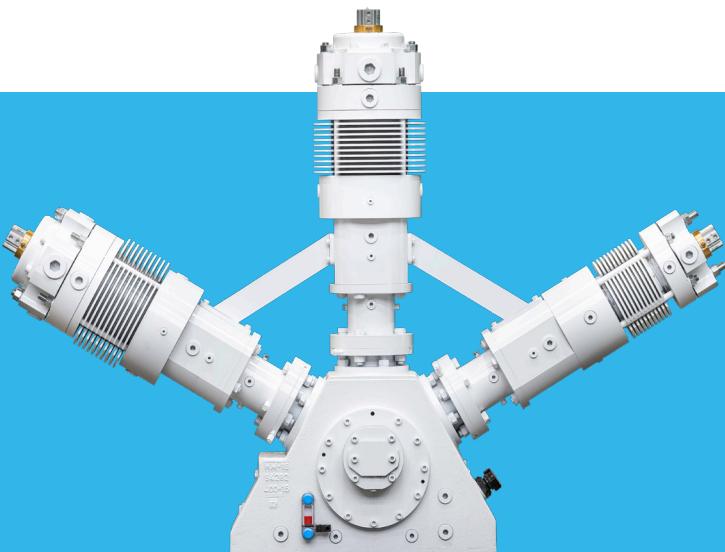
**Valves and piston seals :** Specially designed to optimise performance and increase durability.



## OIL FREE

Fornovo Gas' compressors are designed to **operate completely oil-free**, meaning they do not require oil for cylinders lubrication. This design **eliminates the risk of oil contamination** in the process gas.

Each compressor is engineered to work **cleanly** and **efficiently**, ensuring that both the environment and the equipment remain free from contaminants.



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# Advantages

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ITALIAN  
QUALITY



EASY  
MAINTENANCE



LOW  
OPERATIONAL  
COSTS



EXCELLENT  
FLEXIBILITY



ISO 14687  
SAE J2719

## The Product

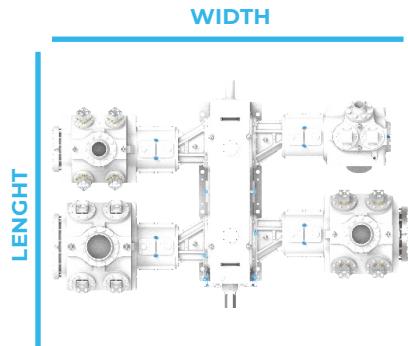
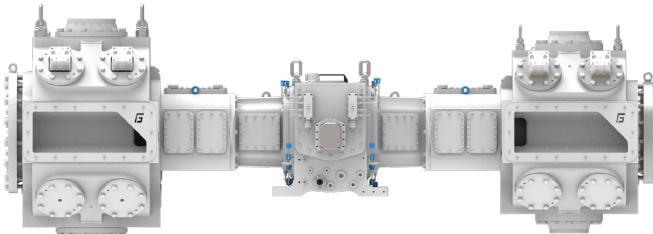
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### HORIZONTAL RECIPROCATING COMPRESSOR

The DA500 is a **horizontal reciprocating compressor** for **hydrogen applications**, designed to deliver unmatched performance and reliability.

Featuring advanced **oil-free technology**, it guarantees **purity** and **efficiency**, making it the ideal choice for demanding hydrogen systems.

With its **robust construction** and **modular design**, the DA500 offers **maximum adaptability** to various flow rates and pressures, ensuring seamless integration into your operations.



**2 cylinders**

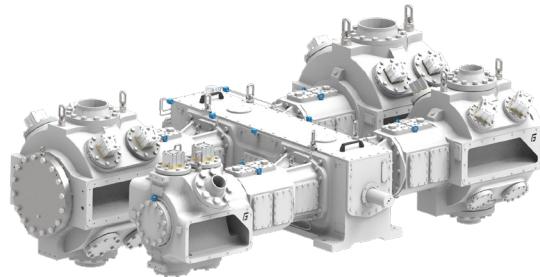
Dimensions: 3762 x 850mm

**4 cylinders**

Dimensions: 3762 x 1900mm

**6 cylinders**

Dimensions: 3762x 3000mm



# DA500 HYD

## MAIN Specifications

- > OUTLET PRESSURE**  
Up to 450 bar
- > POWER**  
Up to 1800 kW
- > FLOW RATE**  
Up to 4500 kg/h
- > COMPRESSION STAGES**  
Up to 5

# Main Features

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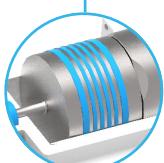
## DISTANCE PIECE, PRESSURE PACKINGS AND PISTON RODS



**Distance piece and pressure packing :** Flushed with inert gas (Nitrogen) to ensure safety and prevent leakage to the environment

**Double distance piece and treated piston rods:** Specially engineered to prevent hydrogen embrittlement, ensuring durability and reliability in hydrogen applications.

## VALVES, CYLINDER HEAD AND SEALS



**Cylinder heads, seals and gaskets:** Made from hydrogen-specific materials to minimise leakage and improve system efficiency.

**Valves and piston seals :** Specially designed to optimise performance and increase durability.

## DISTANCE PIECE TYPE C

The **Distance Piece Type C** ensures an **oil-free compression** process with its **double-compartment design**. This innovative feature prevents oil contamination, guaranteeing the **purity** of compressed gases like hydrogen while delivering top-tier performance, reliability and safety.

# Advantages

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ITALIAN  
QUALITY



EASY  
MAINTENANCE



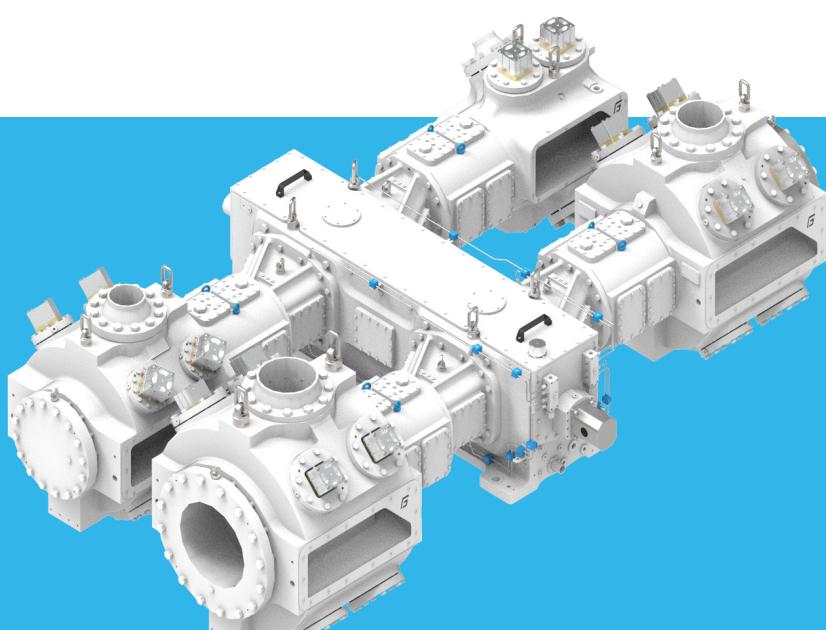
LOW  
OPERATIONAL  
COSTS



EXCELLENT  
FLEXIBILITY



ISO 14687  
SAE J2719



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## What We Do

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# Choose Our

The **Service Department** at Fornovo Gas is dedicated to providing **fast, reliable, and expert support** for our customers. We focus on ensuring the optimal performance and longevity of our gas compressors through **tailored solutions** and **prompt assistance**. Our skilled team is always ready to deliver **high-quality service**, keeping your **operations running smoothly**.



### EXPERTISE YOU CAN TRUST

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Our team comprises **certified technicians and engineers** with extensive experience in gas compression technology, ensuring your systems receive the **highest standard of care**.



### CUSTOMIZED MAINTENANCE PLANS

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We offer **maintenance programs** designed to meet your specific operational needs, **minimizing downtime** and **maximizing performance**.



### GLOBAL SUPPORT NETWORK

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With a robust **global presence**, our service network ensures **timely assistance** and **quick access to spare parts**, no matter where you are located.

# Our Services



## LONG TERM SUPPORT

We aim to **build lasting relationships** with our **clients**, providing continuous support throughout the compressor's lifespan to ensure optimal performance and quality service.



## SPARE PARTS

We supply **original Fornovo Gas components**, guaranteeing compatibility and maintaining the integrity of your equipment.



## TRAINING & KNOWLEDGE SHARING

We empower your team through **specialized training sessions**, enhancing operational efficiency and ensuring safe and effective equipment handling.

# R&D Software

Fornovo Gas has developed a **proprietary system**, an advanced **simulation software**, designed to predict the **optimal configuration** and **performance** of compressors in relation to specific applications.



## CONFIGURATION OPTIMIZATION

The software is designed to **predict** and **optimize** compressor configurations tailored to the specific requirements of industrial processes. This helps **improve efficiency** and **system performance**.

## PERFORMANCE SIMULATION AND ANALYSIS

It allows for **simulating** compressor operation under various scenarios and **analyzing** their performance in real-time, providing data and forecasts to optimize operations and **reduce energy consumption**.

## CUSTOMIZATION FOR SPECIFIC PROCESSES

The software can be adapted to different industrial applications, offering **customized configurations** that meet the precise needs of each client, ensuring high performance and maximizing system reliability.



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# WE MOVE ENERGY

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## SCAN

To Learn More  
About Our  
Compressors

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## SCAN

To see Sonny &  
Mizu Calendar.



**FORNOVOGAS**  
WE MOVE ENERGY  
MADE IN ITALY

Fornovo Gas S.p.A



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