

Industry

.....

RECIPROCATING GAS COMPRESSORS

MADE & DESIGNED IN ITALY 



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



www.fornovogas.it
info@fornovogas.it



Tel. +39 0521 1553844
Fax +39 0521 1523066

FORNOVOGAS
WE MOVE ENERGY
MADE IN ITALY

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 alternative gas compressors**.

Delivering **high-performance, customized solutions** for a wide range of applications: Biogas, Biomethane, CO₂, 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

.....



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

.....

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 | CYLINDER | APPLICATION | | | | | | | |
|-------------|--------------|----------|--|---|---|---|---|---|---|---|
| | | | CH4 | N2 | CO2 | Bio CH4 | Bio CH4 | Sour Gas | Toxic Gas | H2 |
| 1800 | DA500 | LUBE | 17,5 34,7 62 70,5 100 140 275 48 143 275 500 | 10 40 90 133 220 90 275 375 375 | B-C B-C B-C B-C B-C B-C B-C B-C B-C | Bone dry gas seals Ni-plated surface treatment Cylinder lubrication system Packings Nitrogen buffer | B-C B-C B-C B-C B-C B-C B-C B-C B-C | B-C B-C B-C B-C B-C B-C B-C B-C B-C | B-C B-C B-C B-C B-C B-C 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 | DA300 | OIL FREE | 17,5 34,7 62 70,5 100 140 275 48 143 275 500 | 10 40 90 133 220 90 275 375 375 | B B B B B B B B B | Bone dry gas seals Ni-plated surface treatment | B B B B B B B B B | B B B B B B B B B | B B B B B B B B B | B B B B B B B B B |
| 55 | SA200 | NO LUBE | 17,5 34,7 62 70,5 100 140 275 48 143 275 500 | 10 40 90 133 220 90 275 375 375 | B B B B B B B B B | Bone dry gas seals Ni-plated surface treatment | B B B B B B B B B | B B B B B B B B B | B B B B B B B B B | B B B B B B B B B |
| 7 | SA50 | OL LESS | 17,5 34,7 62 70,5 100 140 275 48 143 275 500 | 10 40 90 133 220 90 275 375 375 | - - - - - - - - - - - - | - - - - - | - - - - - - - - - | - - - - - - - - - - - - | - - - - - - - - - - - - | - - - - - - - - - - - - |

Our Technologies

Fornovo Gas focuses on two core lubrication configurations: **No-Lube** and **Oil-Free**, engineered to meet the highest standards of **gas purity, efficiency, and reliability**.

To help you choose the most **sustainable solution** for your gas application, we now present a direct comparison of the three lubrication technologies: Lubricated, No-Lube, and Oil-Free:

| FEATURES | LUBRICATED | NO-LUBE | OIL-FREE |
|----------------------------------|---|---|--|
| Oil Presence | High oil traces; requires separation | Minimal traces | Zero oil in compressed gas |
| Cylinder lubrication | Direct oil injection | Reduced internal oil use | No oil in cylinders (Distance piece type B) |
| Oil separator | Interstage and outlet separators required | Only outlet separator required | Not required |
| Maintenance frequency | Frequent oil refilling and separator draining | Lower maintenance (some oil top-up) | Minimal; (crankcase oil every ~4,000 hours) |
| Gas purity | Low (due to oil presence) | Medium-High | Very High |
| System complexity | High (complex separation and supply chain) | Moderate (simplified circuit) | Low (streamlined gas path) |

Key Benefits

.....

- ✓ **NO-LUBE** Reduced oil consumption, simplified maintenance, excellent gas purity.
- ✓ **OIL-FREE** Zero oil in compressed gas, maximum gas quality, no need for gas-side oil separation.

Our Applications



Applications

FUEL GAS BOOSTING

WELLHEAD WELL DEPLETION

GAS STORAGE, INJECTION AND LIFT

FLARE AND VENT GAS RECOVERY

REFINERY, MINERY, GAS SERVICES

TECHNICAL GASES

BOIL OFF GAS RECOVERY

SMALL SCALE LNG PRODUCTION PLANTS

Gas Recovery

GAS RECOVERY RECIPROCATING COMPRESSOR

The SA50 compressor is engineered to optimize **gas recovery** across a wide range of industrial processes, offering an **efficient, reliable, and low-maintenance** solution.

Its **oil-less technology** ensures clean and contamination-free operation, making it ideal for industries requiring **high purity standards** and **long-term operational efficiency**.



Dimensions: 343 x 327mm



SA50

MAIN

Specifications

- > **OPERATIONAL SPEED**
From 600 up to 1800 rpm
- > **STROKE**
40 mm
- > **POWER OUTPUT**
Up to 7,5 kW

Technical Specifications

.....

AUTONOMOUS COMPRESSION SYSTEM

A completely **independent system**, managed by the motor's **electrical control**, ensuring seamless and secure operations.

OIL-LESS TECHNOLOGY

By **eliminating oil** in the lubrication process, the risk of contamination is removed, ensuring **superior purity** of the compressed gas.

POWER RATED

| | |
|----------|--------------------------------------|
| 2 Stages | 3 kW |
| 3 Stages | 7,5 kW with a TANDEM solution |

Available Configurations

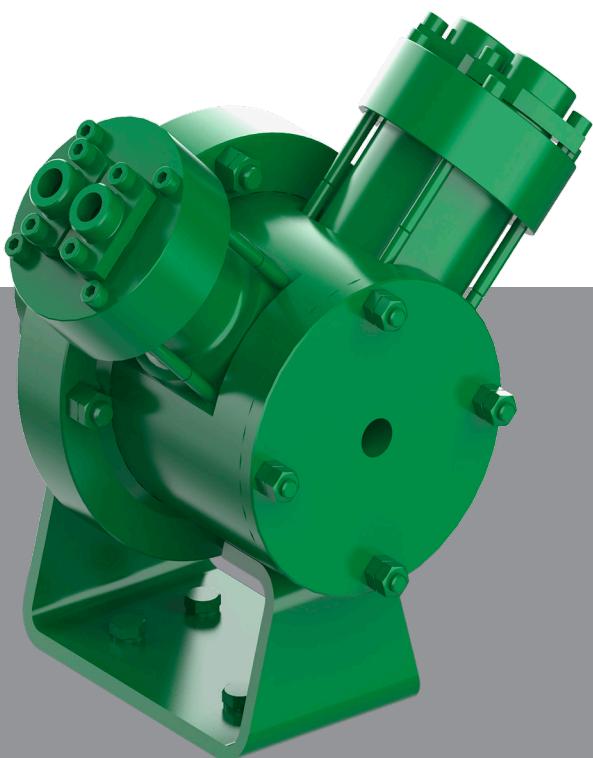
.....

LUBRICATION

Oil Less

STAGES

2 | 3



Advantages

.....



ITALIAN
QUALITY



LOW
MAINTENANCE



ENERGY
EFFICIENCY



EFFECTIVE
RECOVERY



OIL-LESS
TECHNOLOGY

The Product

.....

VERTICAL RECIPROCATING COMPRESSOR

The SA200 is designed to deliver **maximum efficiency** and **reliability** across a wide range of industrial gas compression applications.

Its robust and **technologically advanced** design allows it to handle gases with **high variability** in **composition** and pressure, ensuring **consistent performance** even in the most demanding conditions.

* Measurements can differ based on the selected bore size.



SA200

MAIN

Specifications

- > **OPERATIONAL SPEED**
From 600 up to 1800 rpm
- > **STROKE**
65 mm
- > **POWER OUTPUT**
Up to 55 kW

Technical Specifications

.....

CYLINDERS AND BORES

The SA200 offers a **wide range of cylinders** and **bore sizes**, providing significant **flexibility** to meet the specific needs of each application.

DIRECT COUPLING COMPRESSOR-MOTOR

This integrated system ensures energy transmission with **minimal losses**, **optimizing efficiency** and **reducing system complexity**.

Available Configurations

.....

LUBRICATION

No Lube | Oil-Free

COOLING SYSTEM

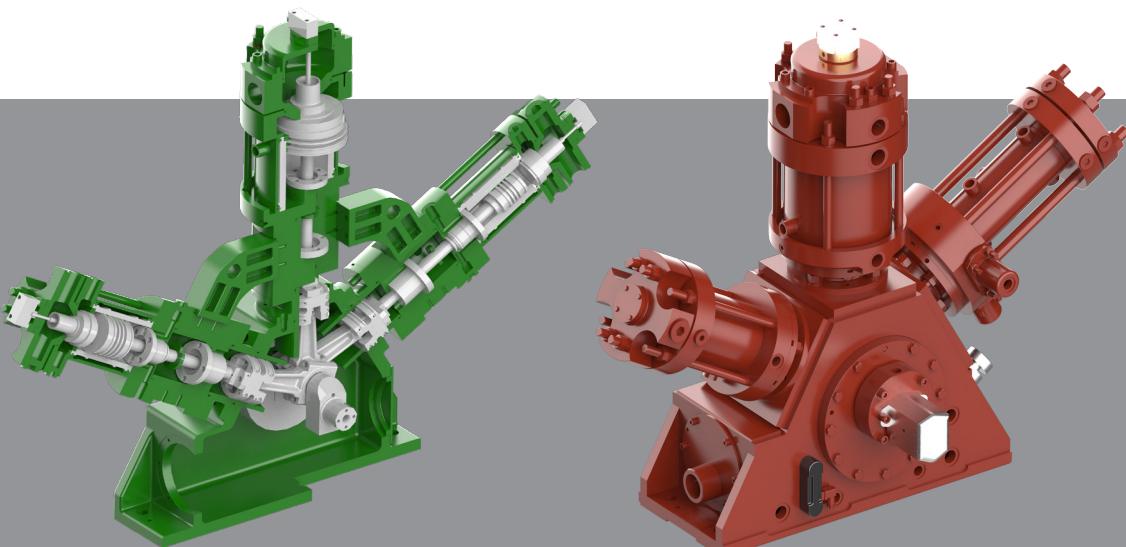
Air | Liquid

CYLINDERS CONFIGURATION

Vertical

CYLINDER NUMBER

1 | 2 | 3



Advantages

.....



ITALIAN
QUALITY



EASY
MAINTENANCE



ENERGY
EFFICIENCY



EXCELLENT
FLEXIBILITY



DISTANCE
PIECE TYPE
B

The Product

.....

VERTICAL RECIPROCATING COMPRESSOR

The DA300 compressor is built for efficiency and versatility, ideal for **industrial gas compression** across various sectors.

Its compact design allows **easy integration** into complex systems, while offering **low oil consumption**, reduced vibrations, and compatibility with **different intake pressures**.

Reliable and easy to maintain, it ensures **long-term, cost-effective operation**.

* Measurements can differ based on the selected bore size.

| LENGTH | WIDTH |
|---|---------------------------|
|  | |
| 2 cylinders | Dimensions: 1153 x 1660mm |

| LENGTH | WIDTH |
|---|---------------------------|
|  | |
| 3 cylinders | Dimensions: 1395 x 1900mm |



DA300

MAIN

Specifications

- OPERATIONAL SPEED**
From 500 up to 1200 rpm
- STROKE**
100 mm
- POWER OUTPUT**
Up to 280 kW

Technical Specifications

.....

CYLINDERS AND BORES

The DA300 offers a **wide range of cylinders** and **bore sizes**, providing significant **flexibility** to meet the specific needs of each application.

For the DA300, we also offer the option of **TANDEM** cylinders, allowing two compressor bodies to be mounted on a single skid, resulting in a vertical compressor with up to **6 cylinders**.

DIRECT COUPLING COMPRESSOR-MOTOR

This integrated system ensures energy transmission with **minimal losses**, **optimizing efficiency**, **reducing system complexity** and maintenance.

Available Configurations

.....

LUBRICATION

No Lube | Oil-Free

COOLING SYSTEM

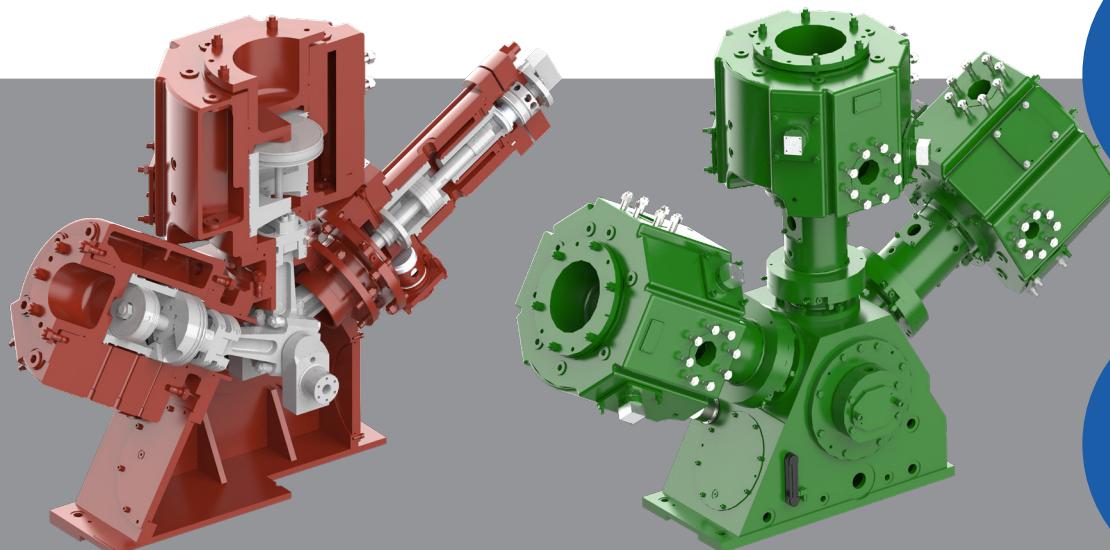
Air | Liquid

CYLINDERS CONFIGURATION

Vertical

CYLINDER NUMBER

1 | 2 | 3



Advantages

.....



ITALIAN
QUALITY



EASY
MAINTENANCE



ENERGY
EFFICIENCY



EXCELLENT
FLEXIBILITY



DISTANCE
PIECE TYPE
B

The Product

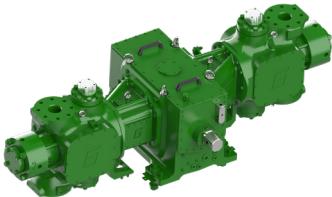
.....

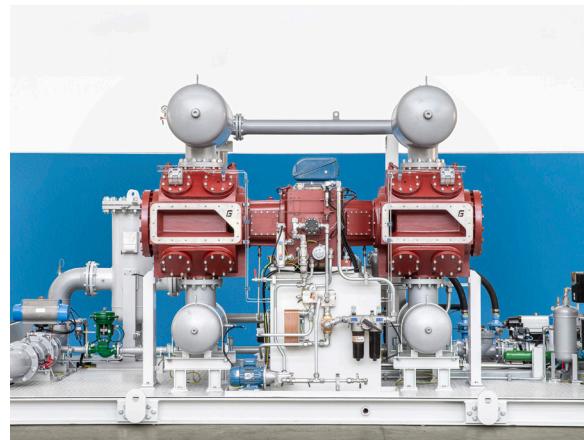
HORIZONTAL RECIPROCATING COMPRESSOR

The **DA500** compressor is a **powerhouse of performance** and **flexibility**, engineered to meet the toughest demands with customizable configurations and superior capabilities.

It is perfect for applications requiring **high capacity** and **adaptability**, offering reliable, efficient solutions for a wide range of industries.

* Measurements can differ based on the selected bore size.

| LENGTH | WIDTH |
|---|---------------------------|
|  | |
| 2 cylinders | Dimensions: 1356 x 3456mm |
| 4 cylinders | Dimensions: 1850 x 3276mm |
| 6 cylinders | Dimensions: 3620 x 3260mm |



DA500

MAIN

Specifications

- OPERATIONAL SPEED**
From 600 up to 1800 rpm
- STROKE**
80 mm | 110 mm
- POWER OUTPUT**
Up to 1800 kW

Technical Specifications

.....

CYLINDERS AND BORES

The DA500 offers a **wide range of cylinders** and **bore sizes**, providing **significant flexibility** to meet the specific needs of each application.

POWER RATED

| | |
|-------------|----------------|
| 2 Cylinders | 600 kW |
| 4 Cylinders | 1200 kW |
| 6 Cylinders | 1800 kW |

Available Configurations

.....

LUBRICATION

No Lube | Oil-Free

COOLING SYSTEM

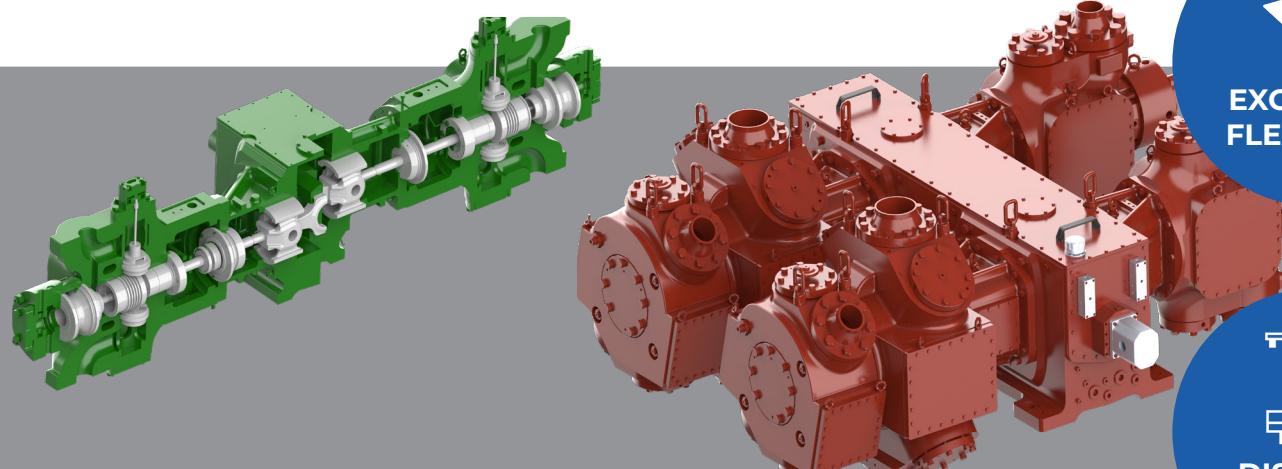
Air | Liquid

CYLINDERS CONFIGURATION

Horizontal

CYLINDER NUMBER

1 | 2 | 3 | 4 | 5 | 6



Advantages

.....



ITALIAN
QUALITY



EASY
MAINTENANCE



ENERGY
EFFICIENCY



EXCELLENT
FLEXIBILITY



DISTANCE
PIECE TYPE
B

Our Package

.....

Fornovo Gas provides a wide range of alternative compressor solutions, offering high efficiency and adaptability for any application.

Our **solutions** can be **customized** based on your specific requirements, ensuring optimal performance and flexibility.

The available purchasing options are:

GASVECTOR

.....

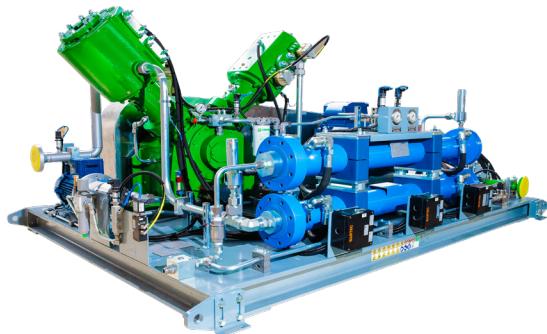
This compact, **modular metal structure** is easy to install and designed to house DA500, DA300, and SA200 compressors, along with **all necessary auxiliary components**.



SKID

.....

For those in need of a robust and **easily transportable solution**, our compressors on skid provide a stable base and a modular structure, enabling **quick** and **secure installation**.



BARE COMPRESSOR BLOCK

.....

This configuration allows for **adapting** the compressors **to the customer's specific needs**, providing the **flexibility to design** the auxiliary and control system according to operational and environmental requirements.



References

HERE ARE SOME OF OUR SUCCESSFUL PROJECTS, SHOWCASING THE VERSATILITY OF OUR COMPRESSORS IN INDUSTRIAL APPLICATIONS:

GAS TURBINE

.....

PACKAGE : GASVECTOR

COMPRESSOR MODEL : DA300 Oil-Free

N. CYLINDERS : 2

INLET PRESSURE : 10-21 bar

OUTLET PRESSURE : 24 bar

POWER : 132 kW

INSTALLATION COUNTRY :  **ITALY**



LIQUEFACTION

.....

PACKAGE : SKID

COMPRESSOR MODEL : DA300 No Lube

N. CYLINDERS : 3

INLET PRESSURE : 14,5 bar

OUTLET PRESSURE : 110 bar

POWER : 132 kW

INSTALLATION COUNTRY :  **ITALY**



WELLHEAD

.....

PACKAGE : SKID

COMPRESSOR MODEL : DA300 No Lube

N. CYLINDERS : 2

INLET PRESSURE : 14,5 bar

OUTLET PRESSURE : 110 bar

POWER : 132 kW

INSTALLATION COUNTRY :  **AUSTRALIA**



* Package in collaboration with our Australian partner IntelliGas

References

HERE ARE SOME OF OUR SUCCESSFUL PROJECTS, SHOWCASING THE VERSATILITY OF OUR COMPRESSORS IN INDUSTRIAL APPLICATIONS:

GAS LIFT

.....

PACKAGE : GASVECTOR

COMPRESSOR MODEL : DA300 Oil-Free

N. CYLINDERS : 2

INLET PRESSURE : 10 bar

OUTLET PRESSURE : 200 bar

POWER : 160 kW

INSTALLATION COUNTRY :  ITALY



PETROCHEMICAL

.....

PACKAGE : SKID

COMPRESSOR MODEL : DA300 Oil-Free

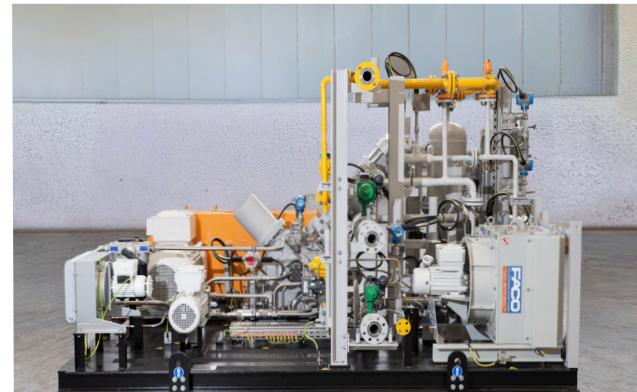
N. CYLINDERS : 1

INLET PRESSURE : 5 bar

OUTLET PRESSURE : 32 bar

POWER : 22 kW

INSTALLATION COUNTRY :  UAE



GAS GATHERING

.....

PACKAGE : SKID

COMPRESSOR MODEL : DA500 Oil-Free

N. CYLINDERS : 2

INLET PRESSURE : 0,25 bar

OUTLET PRESSURE : 11 bar

POWER : 200 kW

INSTALLATION COUNTRY :  HUNGARY



The Project

.....

Casalgrande Padana, a leader in **porcelain stoneware** production, decided to upgrade its plant with a new natural gas **cogeneration system**, developed by **Cefla Engineering**.

The goal was to **enhance energy efficiency** and **reduce environmental impact**.

LA PARTERSHIP

.....

To meet the **high standards** of purity and efficiency required by the system, Cefla Engineering selected **Fornovo Gas** as its technological partner.

The choice was driven by Fornovo Gas's proven expertise in manufacturing oil-free reciprocating compressors designed according to **API 618 standards**, ensuring **maximum methane purity** and **optimal performance** for cogeneration applications.



CASE STUDY

GAS TURBINE

.....

PACKAGE : GASVECTOR

COMPRESSOR MODEL : DA300 Oil-Free

N. CYLINDERS : 2

INLET PRESSURE : 5-12 bar

OUTLET PRESSURE : 18 bar

POWER : 75 kW

INSTALLATION COUNTRY : ITALY



FINAL OUTPUT

.....

The solution allowed Casalgrande Padana to maximize power supply to the turbine, ensuring **efficient, reliable**, and **clean gas** compression.

A fully integrated system aligned with the company's industrial and **environmental goals**.



What We Do

.....

Choose Our Services



EXPERTISE YOU CAN TRUST

.....

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

.....

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



GLOBAL SUPPORT NETWORK

.....

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



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 **configuration** to predict the **optimal** configuration in relation to specific applications.

CONFIGURATION OPTIMIZATION

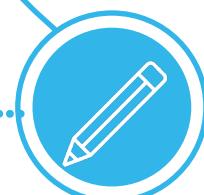
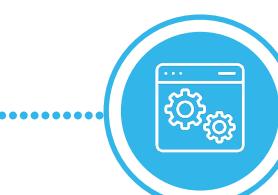
The software is designed to **predict** and **optimize** compressor configurations tailored to the specific requirements of industrial processes. This helps **improve efficiency** and **system performance**.

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.



WE MOVE ENERGY

.....



SCAN

To Learn More
About Our
Compressors

.....



SCAN

To see Sonny &
Mizu Calendar.



FORNOVOGAS
WE MOVE ENERGY
MADE IN ITALY

Fornovo Gas S.p.A



www.fornovogas.it
info@fornovogas.it



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



Tel. +39 0521 1553844
Fax +39 0521 1523066