

BIOGAS

COMPANY BIOGAS PORTFOLIO

WHO WE ARE

Fornovo Gas was founded in 1969 and since then it has been operating all over the world, with constant growth, in the gas compression sector, supplying bare compressors special compressor skids and cutting-edge solutions in terms of reliability, quality and performance, a true symbol of Made in Italy.

2004

First reciprocating compressor fully developed under Fornovo Gas technology

2009

First OIL FREE reciprocating compressor

2017

1.000th compressor

2018

Latest compressor internally developed: DA500, with a power up to 1,2 MW

2020

New reciprocating compressors for carbon dioxide

2021

New reciprocating compressor range for hydrogen



GROWTH & DEVELOPMENT

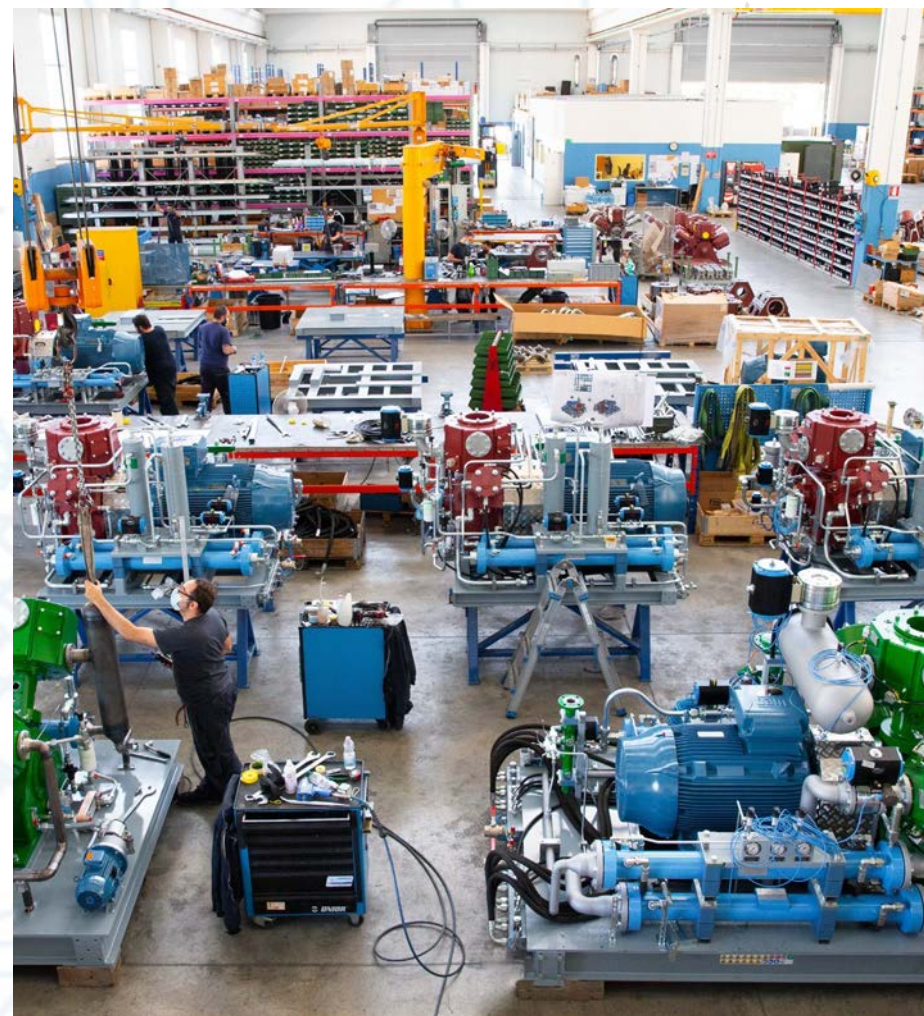
More than 2000 compressors installed worldwide in different configurations and in the most challenging environmental conditions.

Annual production **over 200 bare** compressors and about 100 compressors skids per year.

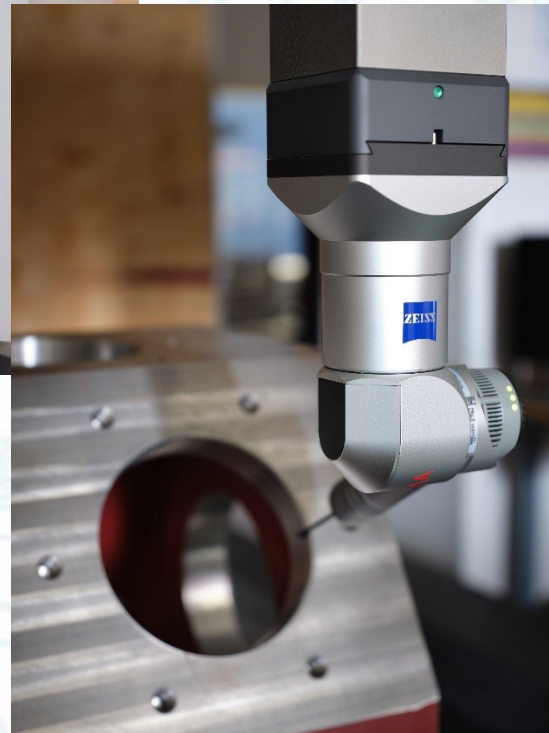
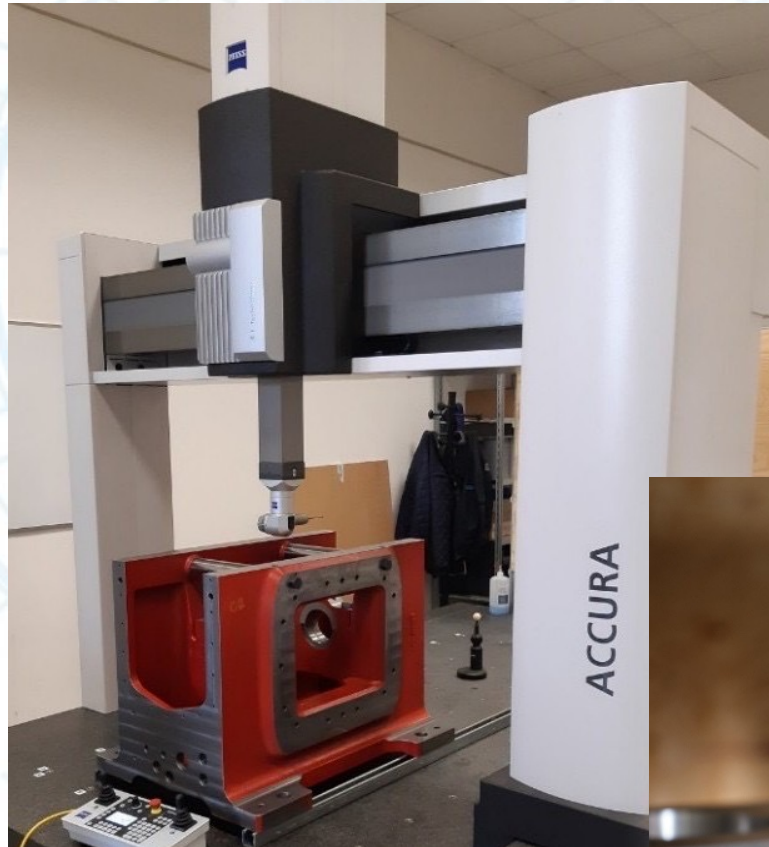
A further element that confirms the growth of the Fornovo Gas company is the **number of employees**: from 2014, when there were about 70 employees at the Traversetolo headquarters, to **2021**, when the actual workforce reaches **115**.

The company's growth is also evident in the steady progression of **EBITDA**, which has increased significantly from **6% in 2014 to 13% in 2020**.

Among the investments that the company is continuing to make, a factory extension of another 5,000 m² is currently under construction and will be inaugurated at the beginning of **2022**, after having built a new **10,000 m²** operational and production facility in **2014**. The new facility will be dedicated to **R&D**, to new technical test laboratories and to house the classrooms of an Academy to train both its own employees and the technicians of its worldwide service network.



PRODUCTION & QUALITY



The Technical Service of FornovoGas in close collaboration with the Engineering Department is able to offer customers technical answers for the immediate solution of problems. We are attentive to a strict control of the Quality of our products and to guarantee the customer a punctual, efficient and competent technical assistance.

Maintaining perfect compressor efficiency has an impact on reducing the running costs of the compressors themselves during the total working cycle of the product.

This is why at FornovoGas we partner with our customers for:

Commissioning & start up

On-site assistance

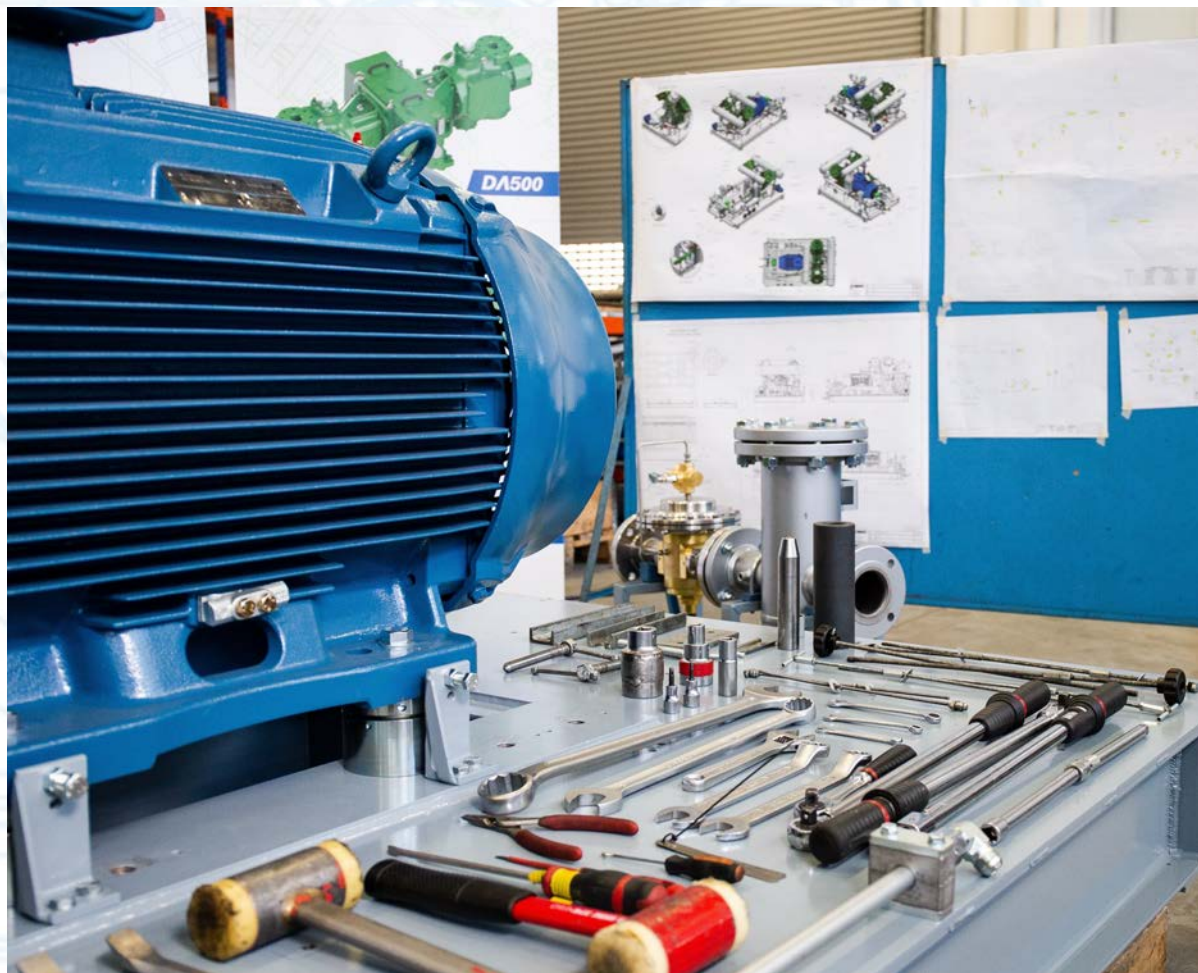
Predictive maintenance/Diagnostics

Special maintenance

Technical training

Engineering services

SERVICE



The Technical Service of FornoVoGas in close collaboration with the Engineering Department is able to offer customers technical answers for the immediate solution of problems. We are attentive to a strict control of the Quality of our products and to guarantee the customer a punctual, efficient and competent technical assistance.

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APPLICATIONS

FORNOVOGAS
WE MOVE ENERGY

FORNOVO GAS supplies compressors for many different applications in industry, such as co-generation plants and gas turbine boosting.

**POWER GEN
OIL & GAS
TECHNICAL GAS**



INDUSTRY

Hundreds of compressors installed in Biogas and Biomethane production plants across Europe and around the world have made FORNOVO GAS an acknowledged world leader in Green Energy Excellence.

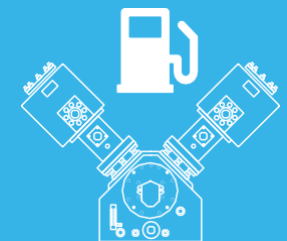
**BIOMETHANE INJECTION
BIOMETHANE LIQUEFACTION
BIOMETHANE STORAGE
BIOMETHANE DISTRIBUTION**



BIOGAS

We have more than 50 years of experience in the design and production of superior quality CNG compressors and CNG solutions, which we install all around the world with the support of our network of carefully selected, international partners.

**CNG MOTHER STATION
CNG DAUGHTER
STATION NGV STATION**

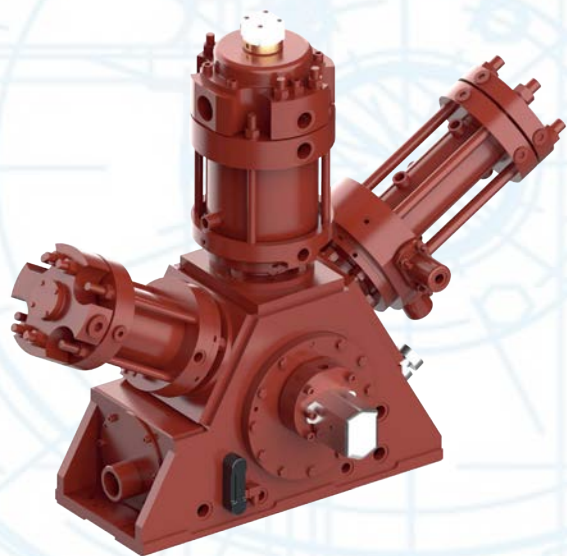


CNG



COMPRESSORS RANGE

NON - LUBRICATED



SA200

Reciprocating compressor with non - lubricated cylinders

Speed range: 500 - 1800 rpm

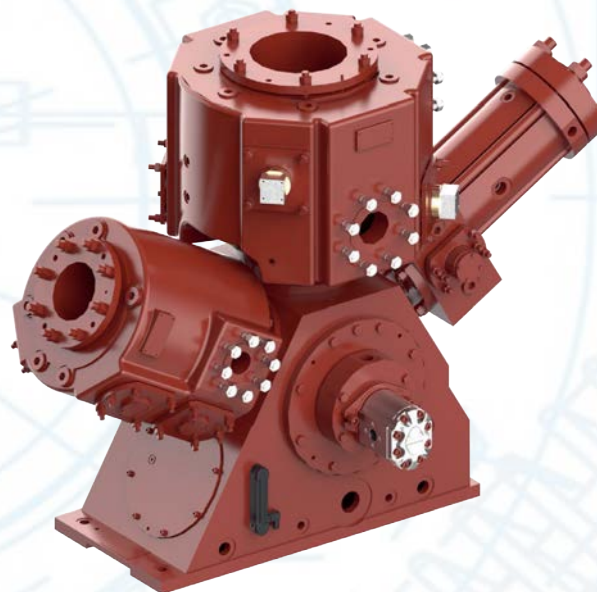
Throws: 1 to 3

Power: 22 - 55 kW

Stroke: 65 mm

Gas rod load: 15 kN

www.fornovogas.it



DA300

Reciprocating compressor with non - lubricated cylinders

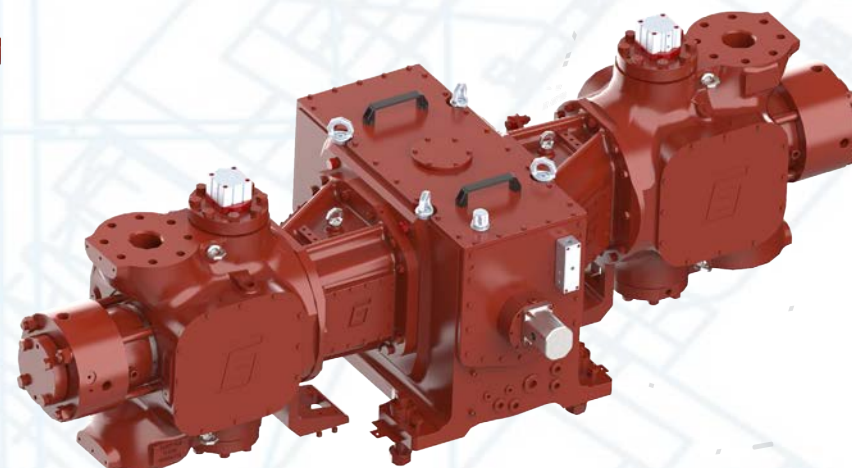
Speed range: 500 - 1800 rpm

Throws: 1 to 6

Power: 55 - 355 kW

Stroke: 100 mm

Gas rod load: 50 kN



DA500

Reciprocating compressor with non - lubricated cylinders

Speed range: 500 - 1800 rpm

Throws: 1 to 4

Power: 200 - 1200 kW

Stroke: 80-90-110 mm

Gas rod load: 125 kN

COMPRESSORS RANGE

OIL FREE with distance piece type B API 618



SA200

Reciprocating compressor with
oil free cylinders

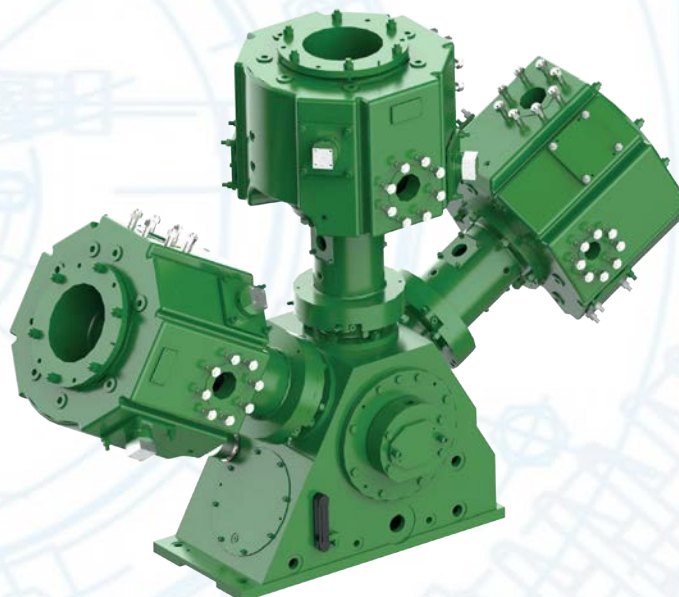
Speed range: 500 - 1500 rpm

Throws: 1 to 3

Power: 22 - 55 kW

Stroke: 65 mm

Gas rod load: 15 kN



DA300

Reciprocating compressor with
oil free cylinders

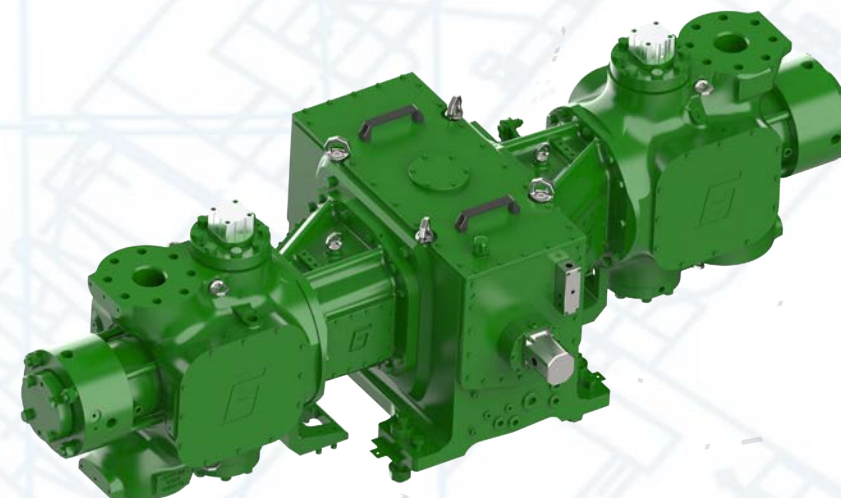
Speed range: 500 - 1800 rpm

Throws: 1 to 6

Power: 55 - 355 kW

Stroke: 100 mm

Gas rod load: 50 kN



DA500

Reciprocating compressor with
oil free cylinders

Speed range: 500 - 1200 rpm

Throws: 1 to 4

Power: 200 - 1200 kW

Stroke: 80-90-110 mm

Gas rod load: 125 kN

COMPRESSORS RANGE

HYDROGEN

SA200

Reciprocating compressor with non - lubricated cylinders

Speed range: 500 - 1500 rpm

Throws: 1 to 3

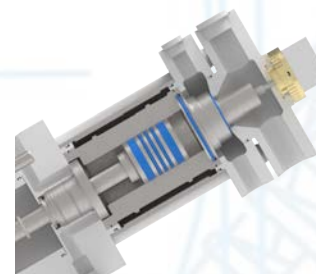
Power: 22 - 55 Kw

Stroke: 65 mm

Gas rod load: 15 kN

100 BAR

FLOWRATE UP TO 100 KG/H



- Piston rod with special treatment to prevent embrittlement
- Piston seals and valves specifically designed for H2
- Gaskets and seals optimized to prevent H2 leakage
- Purging of distance piece with inert gas

DA500

Reciprocating compressor with oil free cylinders

Speed range: 500 - 1000 rpm

Throws: 1 to 4

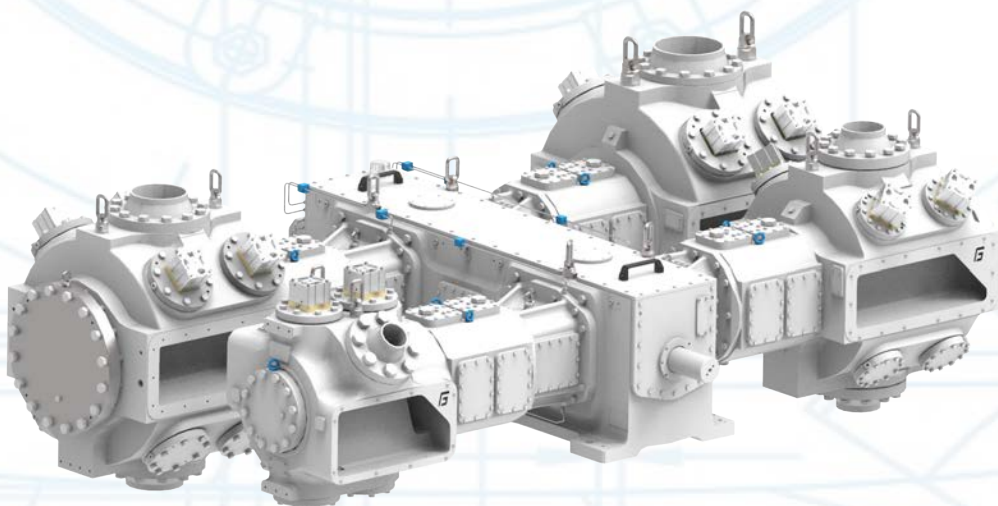
Power: 200 - 1200 Kw

Stroke: 80 - 110 mm

Gas rod load: 125 kN

100 BAR

FLOW RATE UP TO 3000KG/H



GAS RECOVERY APPLICATIONS



MAIN FEATURES

2 stages version

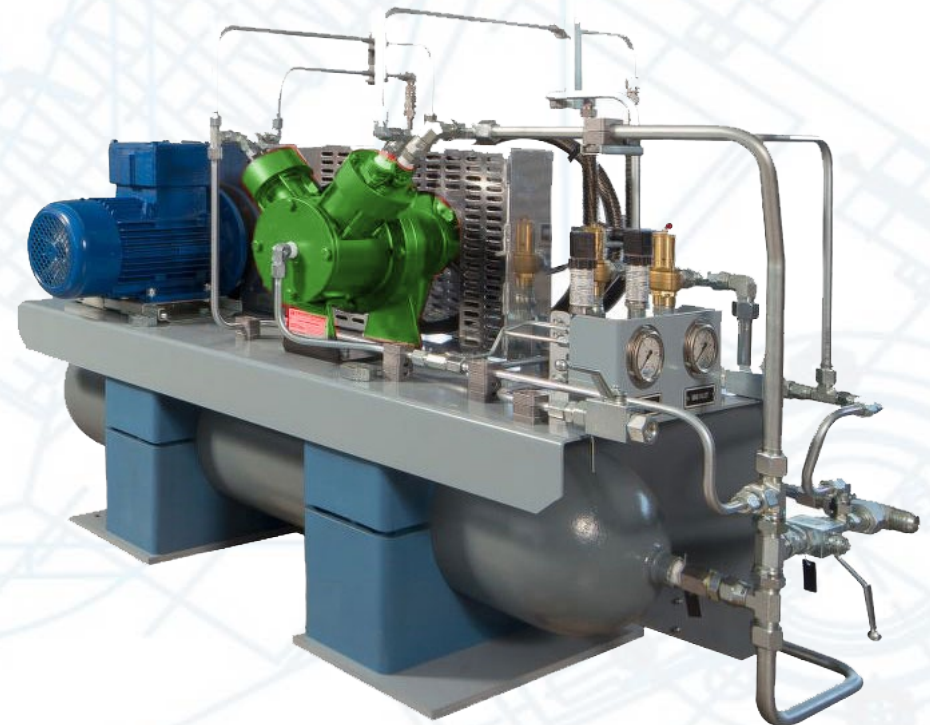
Power output up to 2,2 kW
Lubricant-free cylinders guarantee the highest quality of the supplied gas
No presence of oil in the compressed gas
Low maintenance

3 stages version

Power output up to 7,5 kW
Lubricant-free cylinders guarantee the highest quality of the supplied gas
No presence of oil in the compressed gas
Low maintenance

SA50 Oil Less

Fully autonomous gas compression system with electric motor control
OIL LESS reciprocating compressor



COMPRESSOR FEATURES

Non lubricated configuration

Optional distance piece

Compressor layout V, W-shape or Horizontal configuration

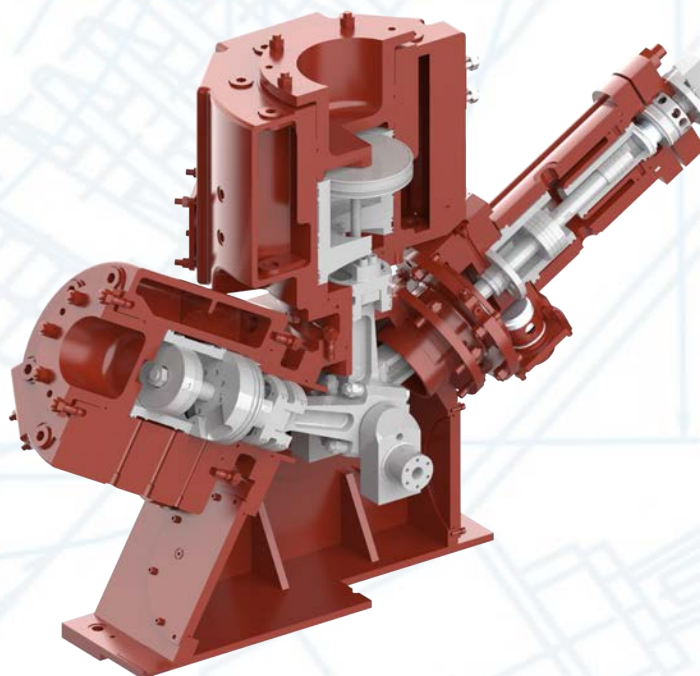
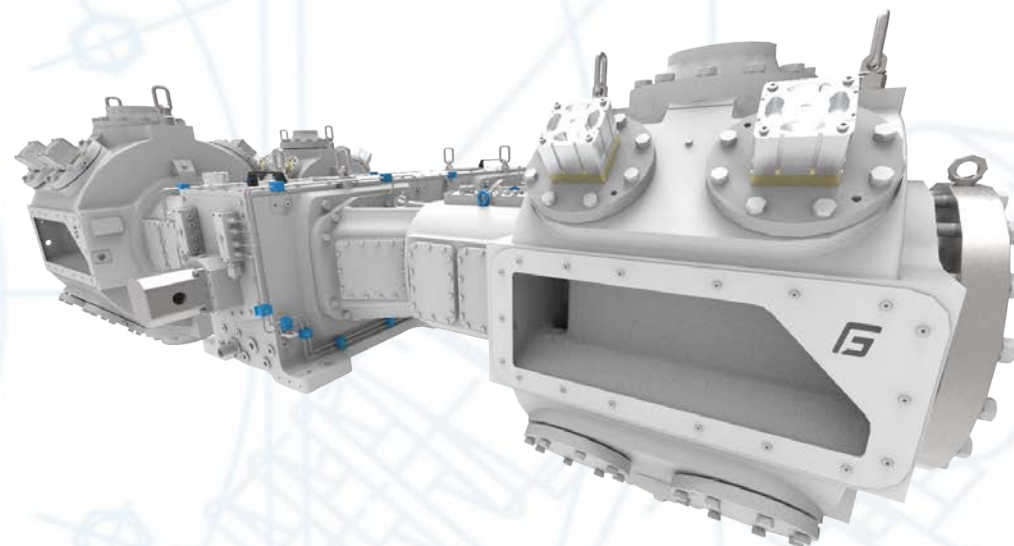
Wide range of operating pressure from 1 up to over 5000 psig

Speed range 500 - 1800 rpm

Direct coupling (electrical or gas engine driven)

Air or Water cooling on all cylinders

Tailor made solution



BIOGAS - BIOMETHANE APPLICATIONS



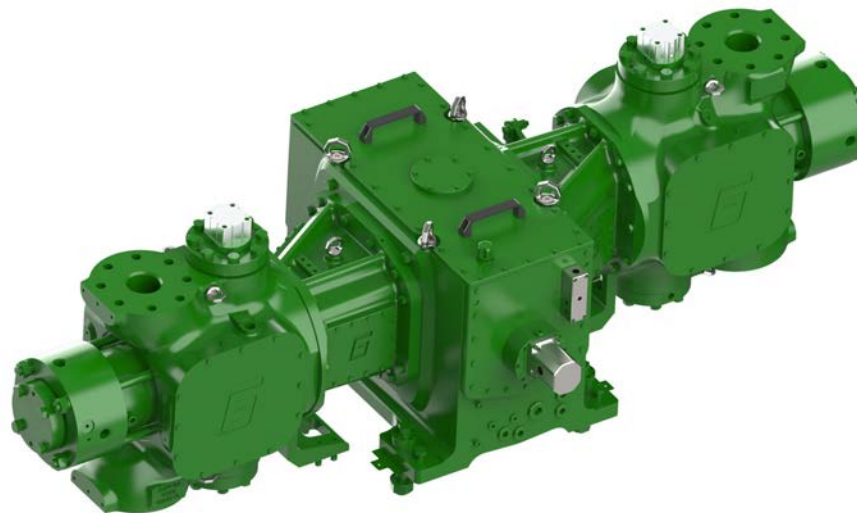
Grid injection

Bio - LNG plant

CO₂ liquefaction plant

Cylinder trailer filling

Boil Off Gas Recovery



BIOGAS

BIOMETHANE APPLICATIONS



Application: BIOMETHANE Pipeline injection

Inlet pressure: 01- 0,25 bar

Outlet pressure: 5 - 25 bar

Flowrate: 600 - 690 NHm³/h

Power: 160 kW

TECHNICAL FEATURES

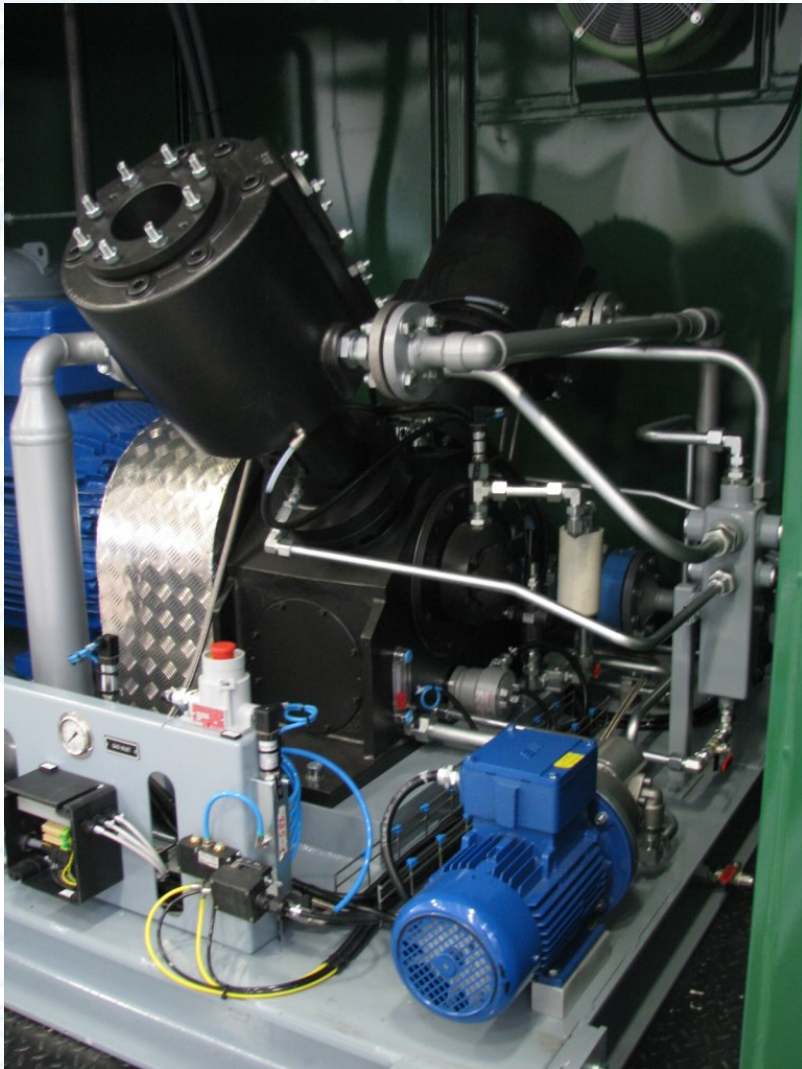
Model: 3 DA300, 1 stadio,

3 strokes oil-free (distance piece type B)

Gas: Biomethane

Rpm : 500 - 1500

BIOMETHANE APPLICATIONS



Application: gas injection
Inlet pressure: 4,5 - 6 bar
Outlet pressure: 21 bar
Flowrate: 500 -1000 NHm³/h
Power: 110 kW
Cylinders: 2

TECHNICAL FEATURES

Model: 1 DA300 Gasvector cabinet
3 strokes oil-free (distance piece type B)
Gas: Biomethane
Rpm : 500 - 1500

BIOMETHANE APPLICATIONS



**Model: 2SA 200 GASVECTOR
CABINET**

**SERVICE: raw biogas plant primary
compression**

GAS: raw biogas

TECHNICAL FEATURES:

Inlet pressure: 0,035 bar

Outlet pressure: 10 bar

Flowrate: 100 Nm³/h

Power: 30 Kw



ALWAYS BY YOUR SIDE

FORNOVO GAS S.p.A.

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