



*Reciprocating compressors
for process gas and air*



SIAD Macchine Impianti,
beyond technology

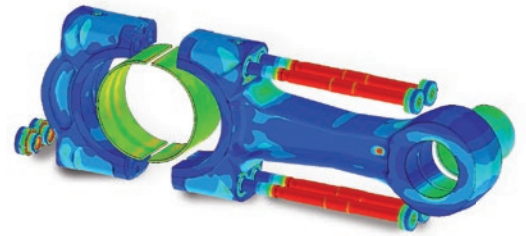
Compressor features

SIAD Macchine Impianti supplies oil-free or lubricated low and high speed reciprocating compressors for process gas and air with water or air-cooled cylinders. All the compressors are complete with electric motors, engines or turbines, air or water heat exchangers, instrumentation, electrical panels, filters and are mounted on skids or directly on foundations; in other words, ready to use.

SIAD Macchine Impianti can supply an integrated compression package design according to the Machine Directive, PED and ATEX regulations and in compliance with the API 618, ISO 13631 and EIGA standards. Compressors are designed based on customers' needs.

Engineering Services

- Pulsation, acoustical, torsional, bending analysis.
- Finite elements structural verification.
- Fluid-dynamic verification.
- Fatigue calculation.
- Measurement and verification of vibration, ultrasonic, thermography, radiography.
- Chemical, physical and metal particles oil analysis.



FEM analysis

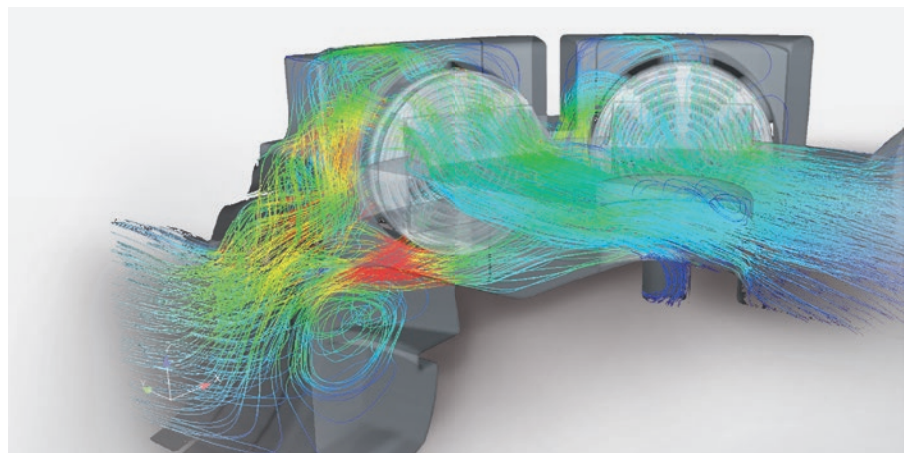
Software for Mechanical calculation

- 3D modelling, static elastic FEM analysis, infinite life fatigue analysis.
- Elastic bodies motion of the complete frame, static elasto-plastic FEM analysis.
- Multiaxial fatigue analysis with the algorithm of Dang Van or Brown - Miller - Morrow.

Computational Fluid Dynamics (CFD) Software

- The gas paths are studied by the computer with most advanced CFD software with the aim to reach at the same time a small clearance volume, for a greater volumetric efficiency, and large and well profiled passages for low pressure losses.

Over 90 years of experience in the compression of all types and mixtures of gases.



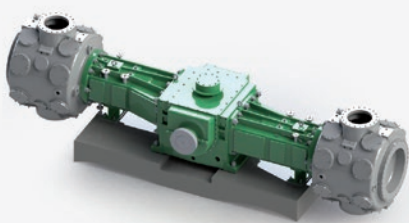
Fluid-dynamic evaluation

Compressor range

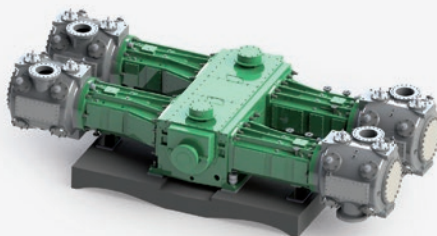
Frame	Max power HP	Max rod load lb	Stroke in	Crossheads	Stage	Min/Max speed rpm	Max cylinder bore in	Max pressure psi
I	14	1,350	2	1	1-2	300/1,200	5	1,450
T	105	3,500	3 7/8	1/2/3	1-5	300/1,200	8 5/8	5,075
W	280	10,500	3 7/8	1/2/3	1-5	300/1,200	16 1/8	5,075
M	700	22,000	5 7/8	1/2/3	1-5	300/750	24 3/4	5,075
P	1,500	30,000	8 1/2	1/2/3	1-5	300/750	31 1/2	5,075
HM	950	22,000	5 7/8	2/4	1-6	300/750	24 3/4	5,075
HP	1,950	37,500	6 1/2 - 7 7/8	2/4	1-6	300/750	31 1/2	8,700
HD	3,280	55,000	6 1/2 - 10 7/8	2/4	1-6	300/750	35 3/8	8,700
HSD	5,600	55,000	4 1/2 - 5 3/8 - 6 1/4	2/4/6	1-6	490/1,500	29 1/2	8,700
HSF	8,700	78,000	5 3/8 - 6 1/4 - 7 1/4	2/4/6	1-6	490/1,200	29 1/2	8,700
HT	11,850	140,000	11 3/8 - 13 3/8	2/4/6	1-6	300/500	39 3/8	8,700

Bare compressor

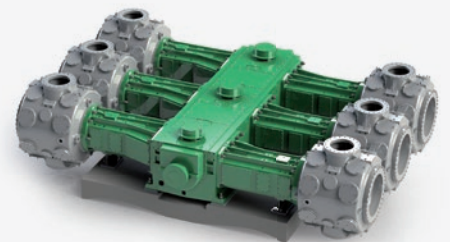
Horizontal frame (HM, HP, HD, HSD, HSF, HT)



2 throws



4 throws

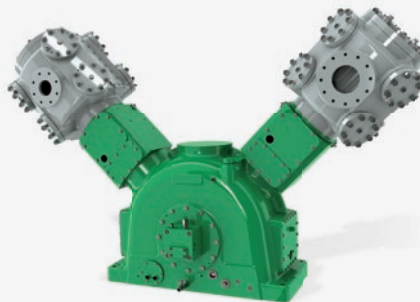


6 throws

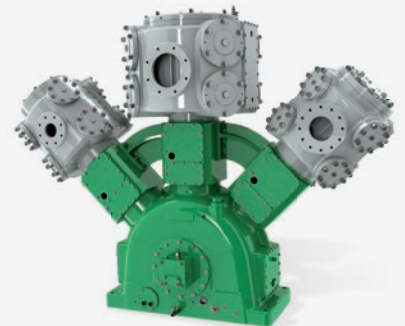
Vertical frame (I, T, W, M, P)



1 throw



2 throws



3 throws

Applications

Due to the experience and expertise of its staff, SIAD Macchine Impianti offers a complete range of compressors and advanced equipment technologies which attain even the most ambitious goals.

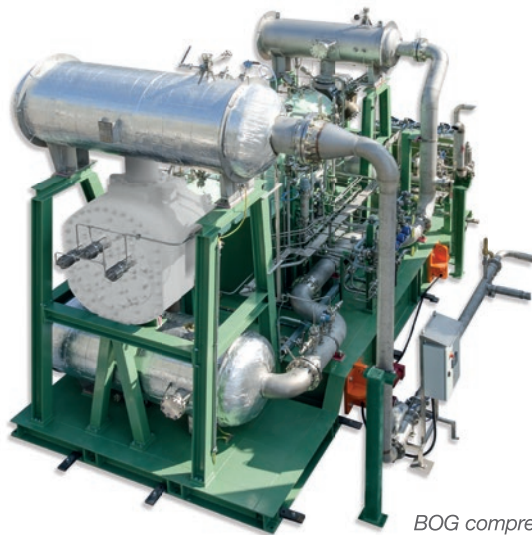
The main industries served are:

- Aerospace
- Agricultural
- Cement
- Chemical
- Civil
- Electrical
- Electronics
- Energy and Power Generation
- Environmental
- Food & Beverage
- FPSO
- Gas Industry
- Glass
- LNG
- Metal Production
- Mining
- Off-shore
- Oil & Gas Exploration and Production
- Petrochemical
- Pulp and paper
- Refinery
- Transportation machines
- Water Treatment and Transmission
- Welding and Metal Fabrication.

Experience in international construction and safety standards.

SPECIALITY	GAS
Comburent	Nitrous Oxide - Oxygen
Corrosive	Carbon Dioxide
Explosive	Acetylene - Butane Ethane - Ethylene Hydrogen - Methane Propylene - Hydrocarbons - Mix
Inert	Air - Argon - Freon Helium - Nitrogen
Toxic	Ammonia Carbon Monoxide

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BOG compressor



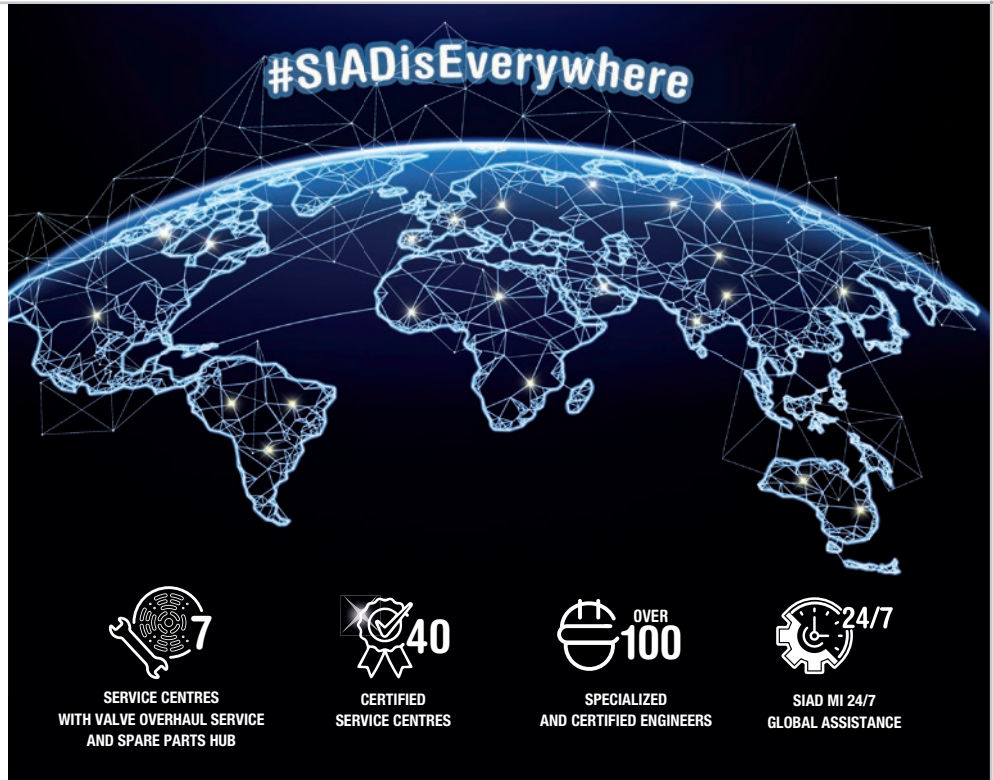
Off-gas stabilizer

Global technical support services

Close to you,
wherever you are

- ✓ **Global presence**
Thanks to a worldwide network of owned and certified Service Centres, SIAD MI guarantee a rapid intervention to support your compressors and plants across all five continents.
- ✓ **Highly specialized technicians**
More than 100 certified technicians ensure the highest quality service assistance to customers throughout the world.
- ✓ **Constant updating and advanced technology**
SIAD MI technical staff periodically train the Service Centres through dedicated training courses which include the award of specific certifications. Thanks to the latest generation of tools, the Service Centres ensure advanced, timely and efficient assistance.
- ✓ **Continuous assistance**
SIAD MI 24/7 Global Assistance is the service that operates 24 hours a day, every day of the year, dedicated to managing the requests from SIAD MI's customers worldwide.

For information:
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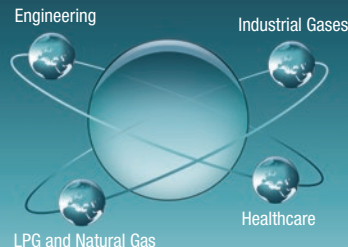
CONNECTIVE COMPRESSION

All SIAD MI compressors can be continuously monitored through **SIADMI4U**, a remote monitoring and diagnostics system which enables you to view, analyze and manage, in real time, through a smartphone or PC, all the operating parameters of a compressor.

Watch the video
YouTube



The SIAD Group



Industrial Gases

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