

API 618 Reciprocating Compressors

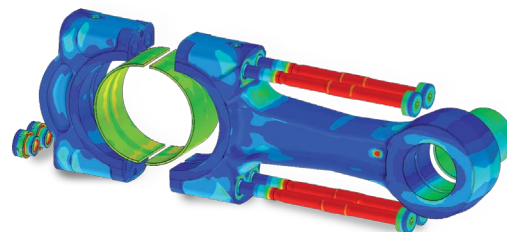


SIAD Macchine Impianti,
beyond technology

Compressor features

SIAD Macchine Impianti supplies oil-free or lubricated low and high speed piston compressors, 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 Machine Directive, PED and ATEX regulations and in compliance with the API 618 standard. Compressors are designed based on customer needs.



FEM analysis

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.
- Multiaxial fatigue analysis with the algorithm of Dang Van or Brown - Miller - Morrow.

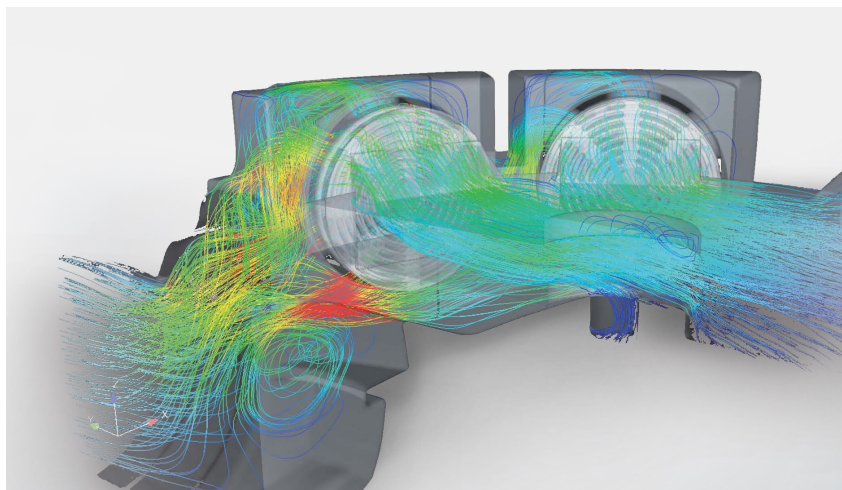
Computational Fluid Dynamics (CFD) Software

- 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.

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.

Over 85 years of experience in the compression of all types and mixtures of gases.



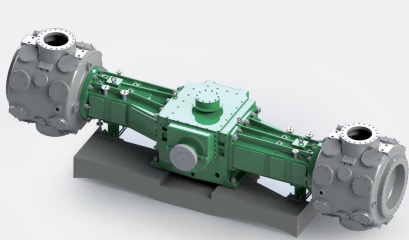
Fluid-dynamic evaluation

Compressor range

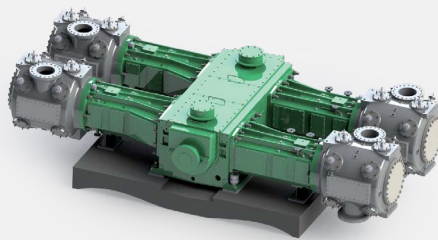
Frame	Max power HP	Max rod load lb	Stroke inches	Crossheads	Stages	Min/Max speed rpm	Max cylinder bore inches	Max pressure psi (a)
I	14	1 350	2	1	1-2	300/1 200	5	1 450
T	105	3 500	3 7/8	1/2/3	1-6	300/1 200	8 5/8	5 075
W	280	10 500	3 7/8	1/2/3	1-6	300/1 200	16 1/8	5 075
M	700	22 000	5 7/8	1/2/3	1-6	300/750	24 3/4	5 075
P	1 500	30 000	8 1/2	1/2/3	1-6	300/750	31 1/2	5 075
HM	950	22 000	5 7/8	2/4	1-4	300/750	24 3/4	5 075
HP	1 950	37 500	6 1/2 - 7 7/8	2/4	1-4	300/750	31 1/2	8 700
HD	3 280	55 000	6 1/2 - 10 7/8	2/4	1-4	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	600/1 500	29 1/2	8 700
HSF	8 700	78 000	5 3/8 - 6 1/4 - 7 1/4	2/4/6	1-6	520/1 200	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

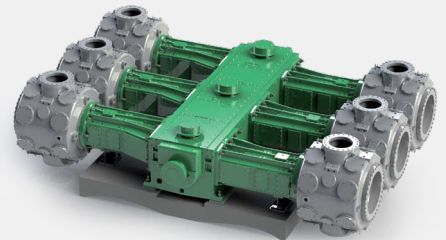
Horizontal frame (HM, HP, HD, HSD, HSF, HT)



2 throws



4 throws

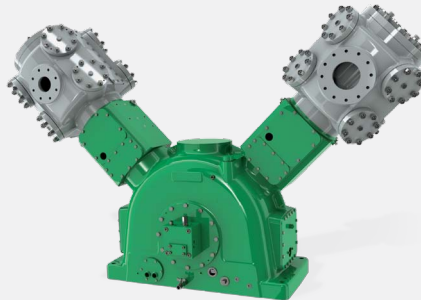


6 throws

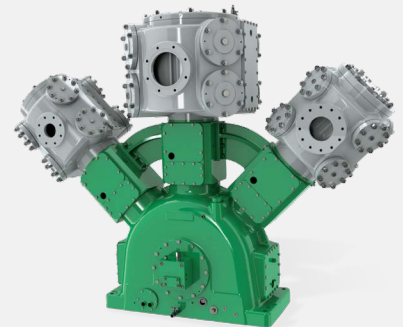
Vertical frame (I, T, W, M, P)



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.

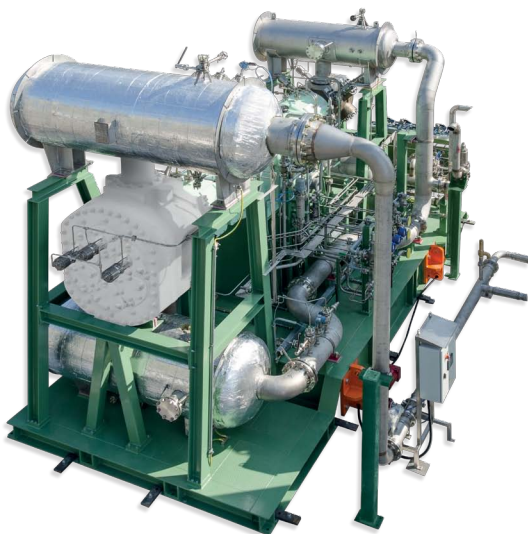
The main industries served are:

- 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

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

Experience in international construction and safety standards.

For further information:
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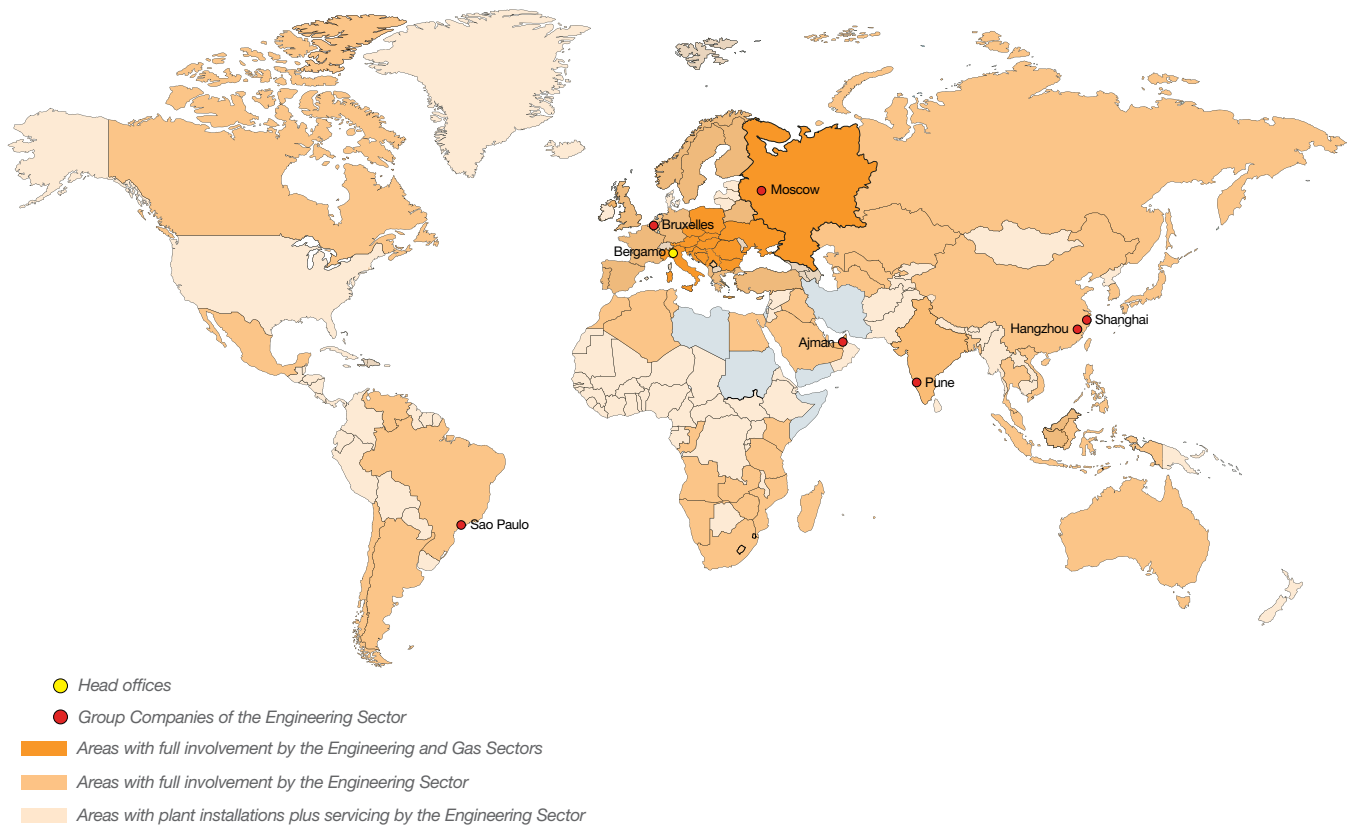


BOG compressor



Off-gas stabilizer

Engineering: commercial and assistance network and activities areas



Technical assistance internationally appreciated for top quality.

Global Service Division: a complete range of services

To reduce operating costs and to maintain compressors in conditions of maximum efficiency, SIAD Macchine Impianti offers clients a complete range of services, as well as a network of Certified Service Centres run by qualified technicians that extends across all five continents.

Activities

- Commissioning and start-up
- Field service
- Original spare parts logistics
- Maintenance contracts
- Monitoring and diagnostic
- Engineering consultancy
- Modernization and Revamping
- Training courses

For assistance:
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The SIAD Group

Engineering

Industrial gases



Services and Industrial goods

Industrial gases

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