**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.

**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.

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

www.siadmi.com
## Compressor range

<table>
<thead>
<tr>
<th>Frame</th>
<th>Max power kW</th>
<th>Max rod load N</th>
<th>Stroke mm</th>
<th>Crossheads</th>
<th>Stages</th>
<th>Min/Max speed rpm</th>
<th>Max cylinder bore mm</th>
<th>Max pressure bar (a)</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>10</td>
<td>6 000</td>
<td>50</td>
<td>1</td>
<td>1 - 2</td>
<td>300/1 200</td>
<td>130</td>
<td>100</td>
</tr>
<tr>
<td>T</td>
<td>75</td>
<td>15 000</td>
<td>100</td>
<td>1/2/3</td>
<td>1 - 6</td>
<td>300/1 200</td>
<td>220</td>
<td>350</td>
</tr>
<tr>
<td>W</td>
<td>200</td>
<td>45 000</td>
<td>100</td>
<td>1/2/3</td>
<td>1 - 6</td>
<td>300/1 200</td>
<td>410</td>
<td>350</td>
</tr>
<tr>
<td>M</td>
<td>525</td>
<td>95 000</td>
<td>150</td>
<td>1/2/3</td>
<td>1 - 6</td>
<td>300/750</td>
<td>630</td>
<td>350</td>
</tr>
<tr>
<td>P</td>
<td>1 100</td>
<td>133 000</td>
<td>215</td>
<td>1/2/3</td>
<td>1 - 6</td>
<td>300/750</td>
<td>800</td>
<td>350</td>
</tr>
<tr>
<td>HM</td>
<td>700</td>
<td>95 000</td>
<td>150</td>
<td>2/4</td>
<td>1 - 4</td>
<td>300/750</td>
<td>630</td>
<td>350</td>
</tr>
<tr>
<td>HP</td>
<td>1 400</td>
<td>165 000</td>
<td>165 - 200</td>
<td>2/4</td>
<td>1 - 4</td>
<td>300/750</td>
<td>800</td>
<td>600</td>
</tr>
<tr>
<td>HD</td>
<td>2 400</td>
<td>240 000</td>
<td>165 - 275</td>
<td>2/4</td>
<td>1 - 4</td>
<td>300/750</td>
<td>900</td>
<td>600</td>
</tr>
<tr>
<td>HSD</td>
<td>4 100</td>
<td>240 000</td>
<td>115 - 135 - 160</td>
<td>2/4/6</td>
<td>1 - 6</td>
<td>600/1 500</td>
<td>750</td>
<td>600</td>
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<tr>
<td>HSF</td>
<td>6 400</td>
<td>350 000</td>
<td>135 - 160 - 185</td>
<td>2/4/6</td>
<td>1 - 6</td>
<td>520/1 200</td>
<td>750</td>
<td>600</td>
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<tr>
<td>HT</td>
<td>8 700</td>
<td>625 000</td>
<td>290 - 340</td>
<td>2/4/6</td>
<td>1 - 6</td>
<td>300/500</td>
<td>1 000</td>
<td>600</td>
</tr>
</tbody>
</table>

### 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**
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.

### Applications

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.

<table>
<thead>
<tr>
<th>Speciality</th>
<th>Gas</th>
</tr>
</thead>
<tbody>
<tr>
<td>Comburent</td>
<td>Nitrous Oxide - Oxygen</td>
</tr>
<tr>
<td>Corrosive</td>
<td>Carbon Dioxide</td>
</tr>
<tr>
<td>Explosive</td>
<td>Acetylene - Butane Ethane - Ethylene</td>
</tr>
<tr>
<td></td>
<td>Hydrogen - Methane Propylene - Hydrocarbons - Mix</td>
</tr>
<tr>
<td>Inert</td>
<td>Air - Argon - Freon Helium - Nitrogen</td>
</tr>
<tr>
<td>Toxic</td>
<td>Ammonia Carbon Monoxide</td>
</tr>
</tbody>
</table>

Experience in international construction and safety standards.

For further information: siadmi_compr@siad.eu

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**Applications**

- BOG compressor
- Off-gas stabilizer
Engineering: commercial and assistance network and activities areas

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: siadmi_support@siad.eu

Technical assistance internationally appreciated for top quality.

www.siadmi.com
The SIAD Group

Industrial gases

SIAD S.p.A.
Via San Bernardino, 92
I-24126 BERGAMO
Tel. +39 035 328111 - Fax +39 035 315485
www.siad.com - siad@siad.eu
GPS: N 45 40.59 - E 9 38.45

AUSTRIA
SIAD Austria GmbH
Bargwerkstrasse 5
A-5120 ST. PANTHALON
Tel. +43 (8277) 7447-0 - Fax +43 (6277) 7401
www.siad.at - siad@siad.at
GPS: N 48 02.8145 - E 12 86.0032

RUSSIA
IBSTRABENZ PLINI d.o.o.
Pobedy bb
B-11730 BREZA
Tel. +387 32 799501 - Fax +387 32 799502
GPS: N 43 59.8727 - E 08 15.2188

BULGARIA
SIAD Bulgaria EOOD
4, Amsterdam sq. P. O. Box 28
BG-1528 SOFIA
Tel. +359 (2) 9786366 - Fax +359 (2) 9789797
www.siad.bg - siad@siad.bg
GPS: N 42 38.21 - E 23 24.24

SERBIA
ISTRAVEZ PLINI d.o.o.
Pristanisht Podbok 3
SRB-BEOGRAD
Tel. +387 32 782941 - Fax +387 32 782959
GPS: N 43 59.9270 - E 01 8.15.218

POLAND
SIAD Polska Sp. z o.o.
ul. Krasińskie 2a
A-20-488 WARSZAWA
Tel. +48 22 7087487 - Fax +48 22 7087456
GPS: N 52 18.4549 - E 24 29.3809

CZECH REPUBLIC
SIAD Czech spol. s r.o.
Průmyslová 38
5-34100 HODOS
Tel. +420 235097520 - Fax +420 235097525
GPS: N 49 33.3673 - E 13 45.911

HZS
SIAD HealthCare S.p.A.
Via Edison, 6
I-20090 ASSAGO (MI)
Tel. +39 02 457921- Fax +39 02 48843380
www.siadhealthcare.com - info@siadhealthcare.com
GPS: N 45 41.12 - E 9 37.264

SERBIA
ISTRAVEZ PLINI d.o.o.
Despotovac 1, 8200-110 BEOGRAD
Tel. +381 113340949 - Fax +381 113341199
GPS: N 44 49.020 - E 020 27.739

SLOVAKIA
SIAD Slovakia spol. s r.o.
Robová 2
836 01 BRATISLAVA
Tel. +421 (2) 44460347 - Fax +421 (2) 44460348
GPS: N 48.10.476 - E 17.09.783

SLOVENIA
IBSTRABENZ PLINI d.o.o.
Simitri Br.
SI-6000 KOPER
Tel. +386 (5) 636400 - Fax +386 (5) 6364999
www.ibstrabenz-plini.si - info@ibstrabenz-plini.si
GPS: N 45 33.3673 - E 13 45.911

UKRAINE
LLC SIAD Ukraine
Konstantinovskytskyi street, 2A
UA-04071 KIEV
Tel. +34 95 9871217
LLC Remtekgras
Kolomovskytskyi street, 28
UA-01001 KRYVD ROY
Tel. +39 033 9789017

BOSNIA AND HERZEGOVINA
ISTRAVEZ PLINI d.o.o.
Pristanište Podbok 3
BA-25010 SPLIT (RIJEKA)
Tel. +385 (31) 328200 - Fax +385 (31) 328201
GPS: N 44 25.30 - E 7 33.38

ITALY
SIAD Macchine Impianti S.p.A.
Via Canovine, 2/4
I-24126 BERGAMO
Tel. +39 035 6227411 - Fax +39 035 6227499
www.siadm.com/italargon - info@siadm.com
GPS: N 45 40.59 - E 9 39.45

SIAD Macchine Impianti Trading (Shanghai) Co. Ltd.
No.5 building, No.999 Ningqiao Rd
Pudong Jingqiao EPZ
Rm.412,
Tel. +86 (0)571 85880480 - Fax +86 (0)571 85880490
www.siadmi.cn/sh - siadm_sh@siad.eu

SIAD Healthcare S.p.A.
Via Edison, 6
I-20090 ASSAGO (MI)
Tel. +39 02 457921- Fax +39 02 48843380
www.siadhealthcare.com - info@siadhealthcare.com
GPS: N 45 41.12 - E 9 37.264

SIAD Healthcare S.p.A.
Via Edison, 6
I-20090 ASSAGO (MI)
Tel. +39 02 457921- Fax +39 02 48843380
www.siadhealthcare.com - info@siadhealthcare.com
GPS: N 45 41.12 - E 9 37.264

ESO Manufacturing Pvt. Ltd.
Plot No. J - 244, MIDC, Bhosari
IN-411 026 PUNE
Tel. +91 9823621452 - Fax +91 9823621452
www.esoengineering.com - eesoengineering@esodynamic.com
GPS: N 18 38.539 - E 73.50.152

Pyronics International S.A.
Zoning Industrial, 4thme rue B-6400 JUNIET
Tel. +32 71 256970 - Fax +32 71 256970
www.esoengineering.com - marketing@pyronics.be
GPS: N 50 27.290 - E 4 27.097

TPI Tecnco Project Industriale S.r.l.
Via Ferra, 40
I-24035 CURNO (BG)
Tel. +39 035 455181 - Fax +39 035 455185
www.tecnoproject.com - tpil/tecnoproject.com
GPS: N 45 41.126 - E 9 37.264

TP Tecnco Project Industriale Ltda.
Rua Pais de Gales, 161
Dist. Ind. Bandaravites - SALTO - SP - CEP 13.361-199
Tel./Fax +55 11 40015564
www.tecnoproject.com.br - tpil/tecnoproject.com.br
GPS: S 19.129 - O 47.31

thématiques...