Compressors

Mayekawa’s MYCOM Compressors have been designed with extreme durability and reliability. Their performance is backed by our global engineering team with countless years of industry experience.

Displacement: approx. 40 to 18,000 m³/hr, 20 to 10,000 CFM

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<tr>
<th>Screw Compressor</th>
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<td>Oil flooded screw with high reliability under severe conditions. There are more various models than the commonly used models shown below:</td>
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<td>- Long time best sellers- UD &amp; V Series</td>
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<td>- Two stage compound- C Series</td>
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<td>- Advanced oil flooded- FX Series</td>
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<td>- New generation- J &amp; APIJ Series</td>
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<th>Reciprocating Compressor</th>
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<td>High efficiency with high cost performance</td>
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<td>Many models/sizes are available for each application</td>
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</table>

Typical Gases Handled *These gases vary depending on the model*

Mayekawa has spread application of oil flooded screw compressor mainly and it has always been leading the its technology in the market.

- **Hydrocarbon Gas**: Mixture with H₂, Refinery OH-Gas, Associated Gas, Natural Gas, Coke Oven Gas, Bio Gas, LPG Gas
- **Raw Material Gas**: Methyl Chloride, Hydrogen Chloride, Vinyl Chloride, Chlorine
- **Industrial Gas**: Hydrogen, Helium, Nitrogen, Carbon Dioxide
- **Refrigerant**: Natural Refrigerant (Ammonia, Propane, Propylene, Butane, Pentane, etc.), HCFC, HFC, HFO
For almost a century, Mayekawa has been growing with the customers

With over 120,000 compressors delivered, Mayekawa has paved its way into various industries from food to energy and Oil & Gas. For almost a century, Mayekawa has been dedicated to improving its delivery of solutions to the world by building a worldwide network. Through this dedication and contribution to the customer and the market, Mayekawa’s own “MYCOM” brand compressor has grown to become one of the most renowned brand of compressors in the world.

MYCOM compressors have been serving Oil & Gas and Chemical markets for various applications, from standard packages to custom design-build packages that must meet rigorous quality and performance requirements.

**Worldwide Network**

Mayekawa’s strategically placed sales, engineering and manufacturing facilities support the customer’s business locally. Each local facility is in close communications globally with one another, so that solutions can be delivered quickly and efficiently from anywhere in the world.

**Production Site**
- Mycom Plant (Japan)
- Yagishitaniura Plant (Japan)
- Saka Plant (Japan)
- Changwon Plant (Korea)
- Chemical Plant (Korea)
- Belgium Plant (Belgium)
- Tomeoka Plant (U.S.A.)
- Nashville Plant (U.S.A.)
- Guanajuato Plant (Mexico)
- Anga Plant (Brazil)

**Main Offices for Oil & Gas and Chemical**
- Tokyo/Mycom (Japan)
- Seoul/Haeundae (Korea)
- Singapore (Singapore)
- Jakarta (Indonesia)
- Bangkok/Rayong (Thailand)
- Zaventem (Belgium)
- Milan (Italy)
- Dubai (U.A.E.)
- Al Khobar (Saudi Arabia)
- Houston/Torrance (U.S.A.)
- Mexico City (Mexico)
- São Paulo/Rio de Janeiro (Brazil)

**HISTORY | Timeline of key compressor development and main office establishment**

- 1924: Mayekawa founded Mayekawa & Co. in Tokyo, Japan
- 1961: Established "MYCOM" for brand
- 1964: High-speed Multi-cylinder type
- 1966: Screw series
- 1968: Mayekawa Brazil
- 1967: Mycom USA
- 1971: Mayekawa Europe (Belgium)
- 1973: Helium screw compressors
- 1974: Two-stage and Compound type
- 1977: Hydrogen chloride screw compressors
- 1981: Mayekawa Singapore
- 1984: Mayekawa Korea
- 2003: Oil series
- 2011: Mayekawa Italy
- 2013: FX Series
Mayekawa’s Applications

**UPSTREAM**
- Wellhead compressor
- Vapor recovery compressor (VRU)
- Injection compressor
- Gas booster compressor
- Gas gathering compressor
- Off-gas compressor
- Gas turbine / engine booster
- Gas / liquid transfer compressor
- PSA / membrane / reformer compressor
- Gas engine driven compressor / refrigerator
- Explosive storage house
- Brine / water chiller

**MIDSTREAM**
- Tank BOG compressor
- Fuel gas booster
- Desuperheater compressor
- Gas / liquid transfer compressor
- Process gas compressor
- Process gas recovery / purification system
- Brine / landfill gas compressor
- Dehydration chiller
- Brine / water chiller
- Dry-up process heat pump
- Gas turbine air intake cooler
- Gas engine driven compressor / refrigerator

**DOWNSTREAM**
- Dehydration chiller
- Oil recovery / dehydration plant
- Off-gas compressor
- Gas turbine / engine booster
- Gas / liquid transfer compressor
- PSA / membrane / reformer compressor
- Gas engine driven compressor / refrigerator
- Explosive storage house

**CONSUMERS**
- Flare recovery compressor - Saudi Arabia
  200M / 700kW
- Flare recovery compressor - Vietnam offshore
  3225MMC / 600kW
- Flare recovery compressor - Russia
  200M / 700kW
- Flare recovery compressor - Nigeria
  GH250S / 550kW
- Gas chiller - Africa offshore
  250L / 1560kW
- Gas chiller - Morocco
  160L / 130kW
- Gas chiller - China
  2520SSC / 280kW
- Gas chiller - Japan
  400XL / 1500kW, 250L / 600kW
- Gas chiller - Malaysia
  250L / 1560kW
- Gas chiller - Malaysia
  160L / 130kW
- Gas chiller - Thailand
  400XL / 1500kW, 250L / 600kW

**Unique Technologies with Natural Refrigerant**
- NH3 / CO2 refrigerator
- Air cycle system for ultra low temperature, No Brayton cycle cryocooler
- CO2 heat pump - hot air / hot water supply
- NH3 BOG system - Morocco
  160L / 130kW
- NH3 recovery / Purification plant - China
  2520SSC / 280kW
- Gas turbine booster - Nigeria
  GH250S / 550kW
- LPG transfer compressor - Mexico
  6HK / 45kW
- LPG transfer compressor - Korea
  200S / 230kW
**Engineering**

As the Original Equipment Manufacturer (OEM) of "MYCOM" compressors, Mayekawa provides robust design and engineering services for the packages and systems with controls that maximize their performance and reliability. Mayekawa’s own R&D and engineering tools such as fluids, structural analysis program and 3D-modeling are utilized to complete the design process on everything from individual components like heat exchangers, to an entire system like plant engineering. The Mayekawa engineering team works closely with the clients from feasibility studies through to project completion. Mayekawa has a deep pool of experienced engineers across the globe to find the perfect technical solution for the customers.

**Manufacturing & Quality Control**

Using automated design systems like 3D-modeling, Mayekawa can apply both advanced fabrication techniques as well as the 100 years of industry leading experience to the equipment manufacturing process, ensuring shorter delivery times and a high standard of quality in all of products. Due to the strategically placed production sites around the globe, Mayekawa can assemble packages and manufacture compressors nearby no matter where the clients are located. Mayekawa applies standard international quality controls based on ISO9001 and other international codes as applicable. Special test & inspection processes and documentation are also available options for customers upon request.

**R&D**

Mayekawa continuously researching and developing advanced methods and technologies to better serve the customers while global markets shift towards putting a higher emphasis on sustainability and environmental stewardship. Mayekawa is constantly searching for ways to improve basic and system technologies beyond just compressor technology, while exploring new and exciting natural refrigerants as a way of reducing the industry’s effect on the environment.

**Customer Service**

Mayekawa offers its clients local access to on-site and off-site repairs, parts, maintenance, overhauls, and start-up and commissioning support for both onshore and offshore applications. Mayekawa’s well-trained localized service teams are on call and ready to quickly provide support to each and every customer. Standard spare parts are stocked in factories but in and sales offices not only to minimize the customer's waiting time, but also to reduce customer’s inventory. Mayekawa’s service team offers predictive maintenance services such as machine and process analysis, and technical support for system optimization. To support customers further, on-site & off-site training programs are offered for both hands-on work like maintenance and overhauls, and theoretical study like refrigeration theory. Special programs like the VIP Programs (monitored storage of spare compressor) and Compressor Remanufacturing Program are also options.

**Code & Standard**

Mayekawa’s global experience made it possible to apply world’s major code and standard on its products (i.e. API619, other APIs, ASME, TEMA, PED, ML, EAC, ANSI, DIN, JIS, IEC, ATEX, etc.).