

МАYEКАША
MYCOM

STANDARD PACKAGE DIVISION

Light Chemical Applications





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Taipei
Taichung
Kaohsiung
Bangkok
Manila
Trang
Ho Chi Min City

Singapore
Changwon
Jakarta
Surabaya
Moriya
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Tokyo
Higashihiroshima
Kuala Lumpur
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Kuala
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Sydney
Auchland
Vancouver
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Monterrey
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Medan
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San José
Medellin
Maracaibo
Barcelona
Bogota
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Guayaquil
Lima
Curaba
Recife
Goiania
Bahia
Macae
Oeste Paulista
Rio de Janeiro
Aruya
Curitiba
Chapeco
Santiago
Concepcion
Rio grande do Sul
Buenos Aires
Puerto Montt
Puerto Madryn

106 Worldwide network offices

(in **45** countries overseas)

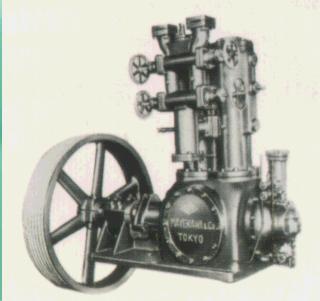
4737 Employees

(**2473** in Japan & **2264** Oversea)

11 Factories

(**3** in Japan & **8** Oversea)





First Reciprocating
Compressor

1924

Multiple Cylinder
Reciprocating
Compressor

1958

Screw Compressor

1960

Ethylen Plant

1970

4K Super Low Temp.
Particle Accelerator

1978

LNG Tanker

1980

- Company founded in 1924.
- Over 90,000 screw and reciprocating compressors running in more than 100 countries.
- 40% of the world market share.





Nuclear Fusion



MagLev Train



Rocket Fuel

Chemical Plant
(EG & NH₃)Super GE
(Super Conductive
Electric Generator)

Pharmaceutical

1981

1984

1989

1990

1993

2000

- Company founded in 1924.
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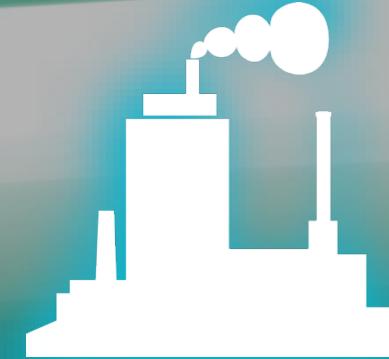
Refinery



Mining



Refrigeration



Power



Biogas



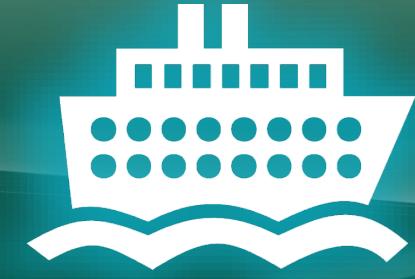
Oil&Gas



Chemical



CO₂ recovery
and liquefaction



Marine



Bio-Fuel



Gas Processing Plants

- Dew point control
- Cryo plant refrigeration
- Deethanizer plant refrigeration
- Chemical & Petrochemical



Plants and Refineries

- Water/glycol chilling
- Heat transfer fluid (HTF) chilling
- Chlorine liquefaction
- Hydrocarbon refining



Fertilizer Plants

- Ammonia storage
- Loading & unloading refrigeration
- Boil-off gas (BOG) compression



Hydrocarbon Storage Facilities

- Propane & butane storage
- Loading & unloading refrigeration
- BOG compression



Liquefied Natural Gas (LNG) Plants

- BOG condensing units
- Gas turbine inlet air chilling
- Turbine fuel gas compression



Power Generation Plants

- Gas turbine inlet air chilling
- Turbine fuel gas compression



Pharmaceutical Facilities

- Water/glycol chilling
- HTF chilling
- Low-temperature refrigeration



Environmental Systems

- Environmental test chambers
- Flare gas recovery
- CO₂ compression & liquefaction
- Carbon sequestration & EOR
- Vapor recovery units



Offshore Production, Storage and Offloading Facilities

- Mixed hydrocarbon compression
- Process gas chilling
- BOG compression



Biogas and Landfill Gas Applications

- Process gas compression
- Mixed hydrocarbon compression
- Hydrogen and sour gas
- CO₂ compression & liquefaction



Industrial Gas Applications

- Process gas chilling & condensing
- Nitrogen chilling
- Air chilling



Hydrogen has been identified as a key element for the decarbonization of different sectors:

- Energy
- Mobility
- Industry
- Residential

OUR CHALLENGE

A lot of investments in decarbonization of the Planet and in green technology where our standard compressor unit can be used:

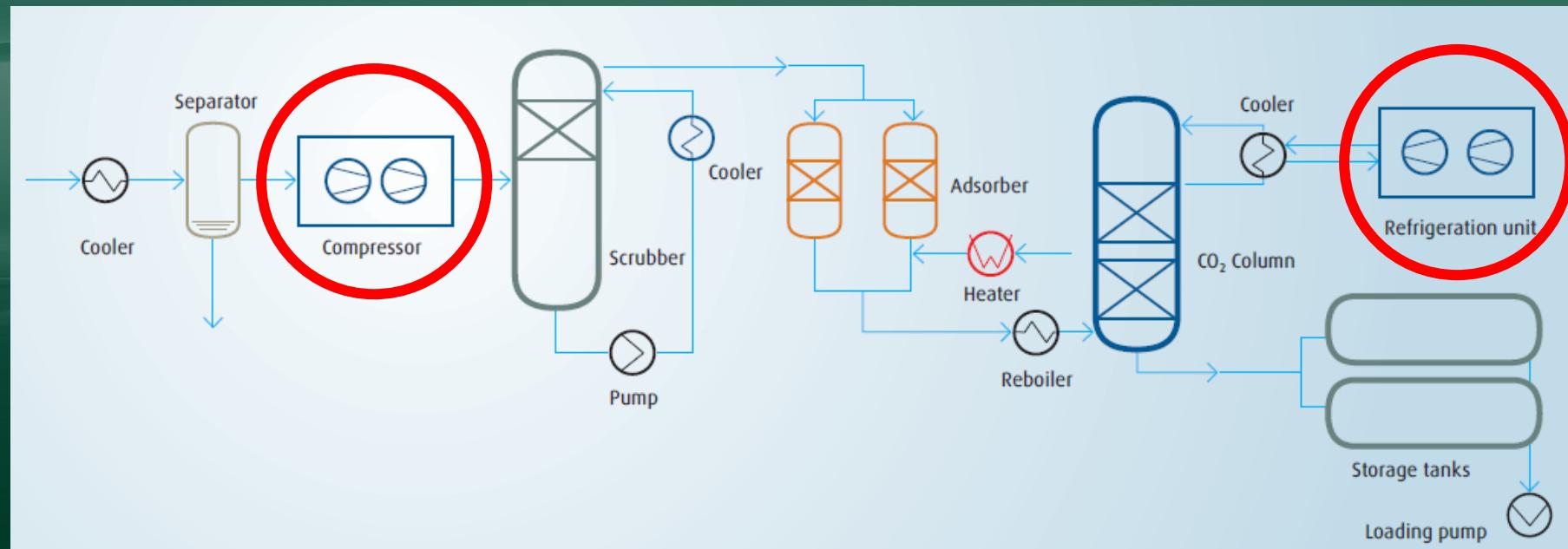
- Biogas upgrading plants
- Power Purchase Agreement (PPA)
- Hydrogen production plants
- CO₂ liquefaction plant
- CO₂ recovery system (CCS)

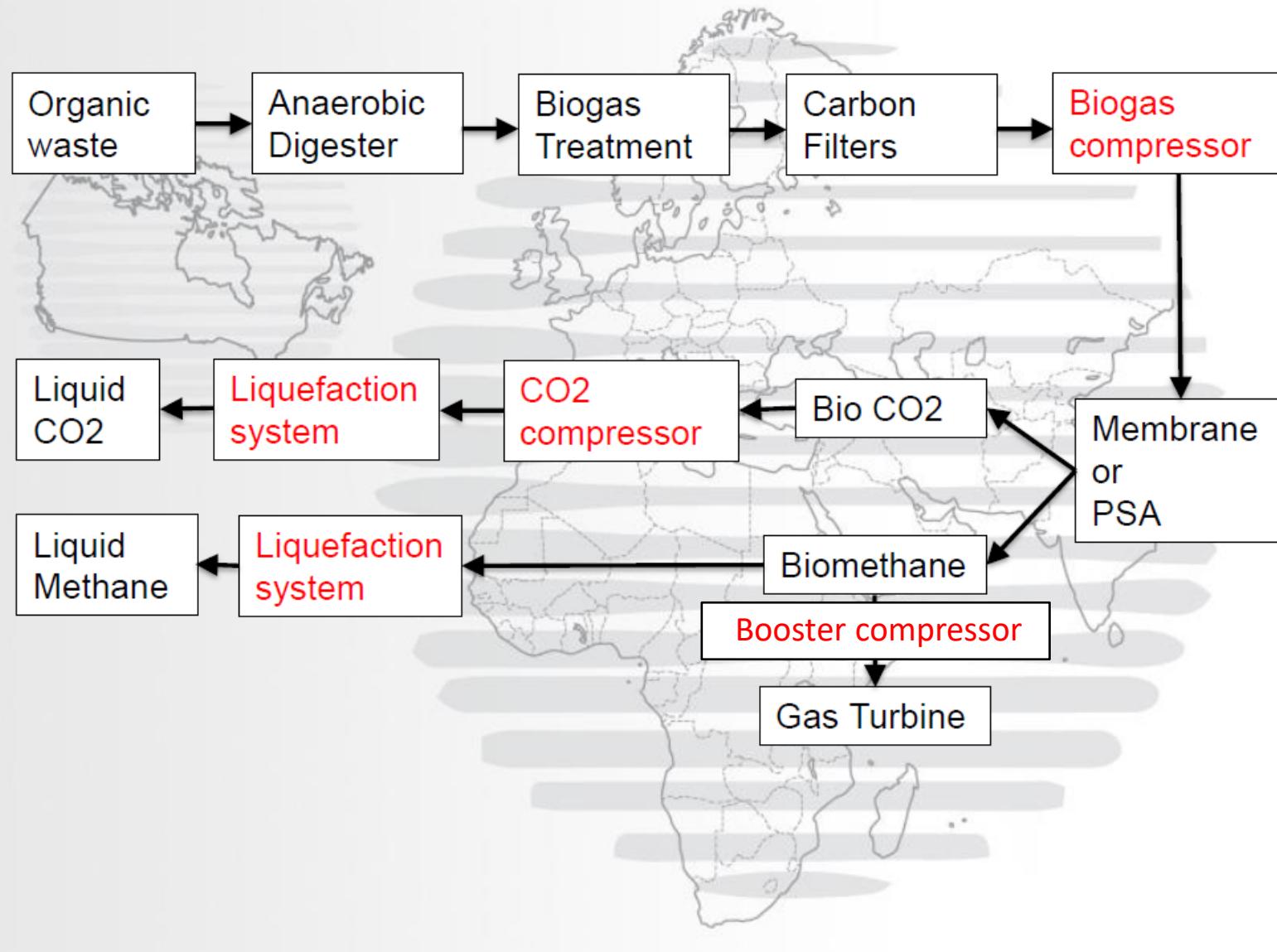


Our compression units support :

- Ammonia
- Ethylene oxide/glycol
- (Bio) Ethanol
- Natural wells
- Refineries
- Synthesis gas
- Biogas
- Natural gas sweetening processes

- Step-by-step process flow pre-cooling and compression.
- This unit cools down the water-saturated feed gas and then separates the water.
- The cooled gas is sent to the CO₂ compressor to increase the pressure up to operating conditions. Boil-off gas from the storage tanks can also be recycled to the compressor.
- Oil filters and various adsorbers can be added downstream as required to remove additional components such as hydrogen sulfide (H₂S).
- Mayekawa can supply the CO₂ compressor and NH₃ compressor unit.



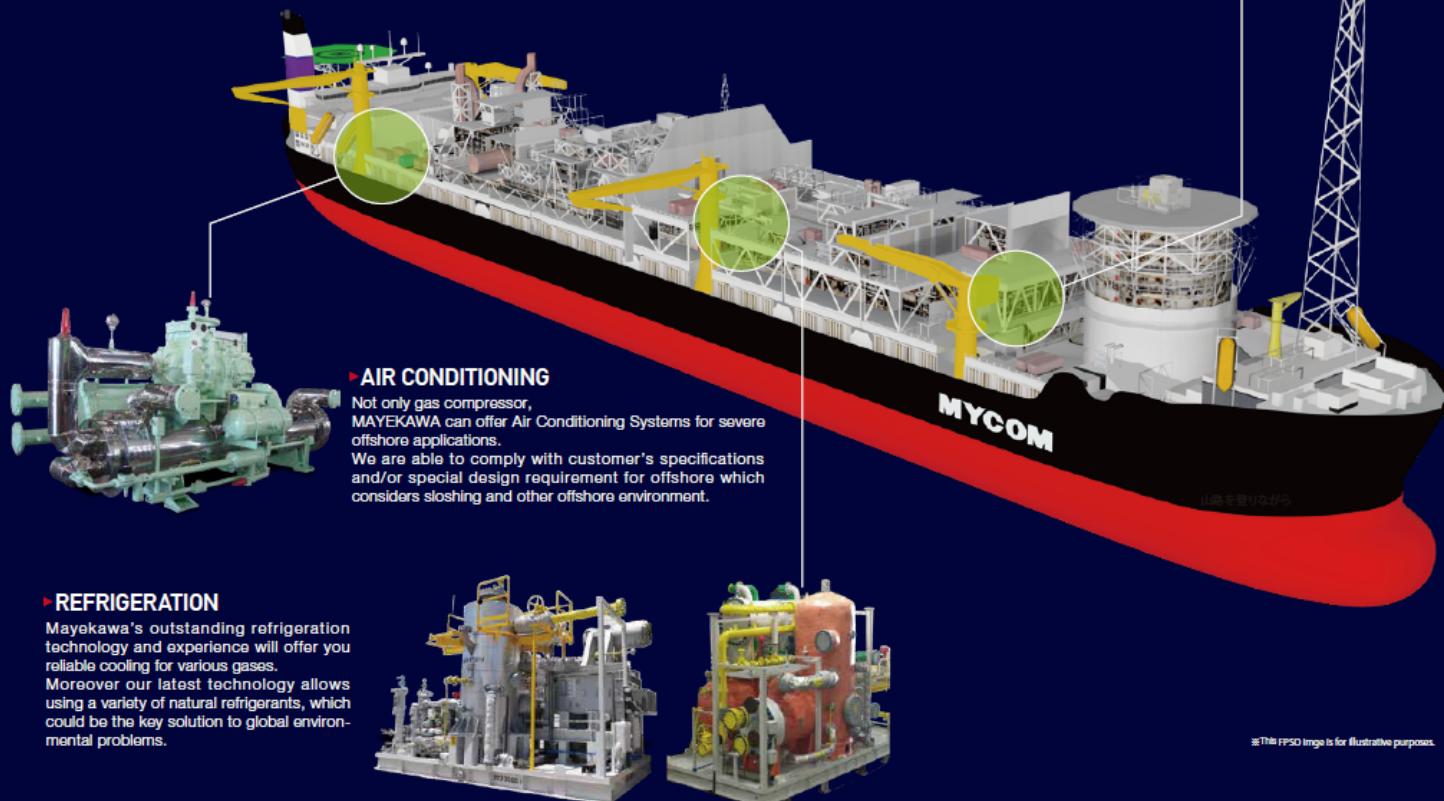


WHAT WE CAN DO

- Biogas compressor unit
- CO₂ compressor unit
- MR compressor unit
- Chiller
- Booster compressor

MAYEKAWA'S AVAILABLE APPLICATIONS

- Process Gas Compression
- Vapor Recovery
- Refrigeration
- Air Conditioning (HVAC)
- Fuel Gas Boosting
- Wellhead & Gas Gathering
- Gas Turbine Inlet Air Cooling
- and more ...



VAPOR RECOVERY

By recent environmental circumstance, needs of Flare Gas Recovery and/or other gas recovering systems are increasing.

Our flare recovery systems are currently operating on oil rigs around the world.

Also our own developed compressor technology with isolated lubrication systems allows you to recover gases such as heavier hydrocarbon gases or gas including active substances. This unique system offers you advantage of both dry and wet screw design.

OUR RELIABILITY

Mayekawa's well sophisticated Compressor Package Design and High Quality provide "HIGH RELIABILITY"

MYCOM OFFSHORE SCREW COMPRESSOR PACKAGE IN FULFILL SERVICE

Platform	2014	Running Hour Interval before Downtime as of End of 2014
A	97.84%	>98303
B	98.60%	>82325
C	99.03%	>29302
D	99.40%	>27988
E	98.50%	>35748
F	98.20%	>26253
G	99.30%	>20253

Source: Real Data / Information from End-User

• 98.7% as Whole package

*as average of above Real Data

FOR REFERENCE "GENERAL BARE SHAFT COMPRESSOR"

Equipment	Availability
Rotary Screw (Oil-injected)	99.2% 97.7%
Rotary Screw (Dry Type)	99.6% 99.0%
Centrifugal (Clean service)	99.9% 99.7%
Centrifugal (Fouling service)	99.6% 99.0%
Reciprocating (Oil-injected)	99.5% 97.3%
Reciprocating (Dry Type)	98.6% 91.3%

Source: Jan. 99 - Hydrocarbon Processing Magazine

Reliability of bare shaft screw compressor is generally known as 97.7 % (as average)





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