



It is our commitment to create new value for a better environment and a brighter future for the generations to come.

Gas compression systems in plants are one of the essential infrastructures to deliver energy and support human lives.

It is a common belief that gas compressors require oil for lubrication, requiring operators to perform maintenance activities frequently and being an environmental burden.

But what if your gas compressors were free from oil?

Allow us to present "MAG Comp," a totally oilfree machine that provides the ideal and stylish system for your compression demands.







EVOLUTIONARY MACHINE



Flow Capacity up to 200 m³/min

Pressure up to 150 kgf/cm²A

Power up to 10 MW

Triple-E Concept - 3 Powerful Reasons to Choose MAG Comp -

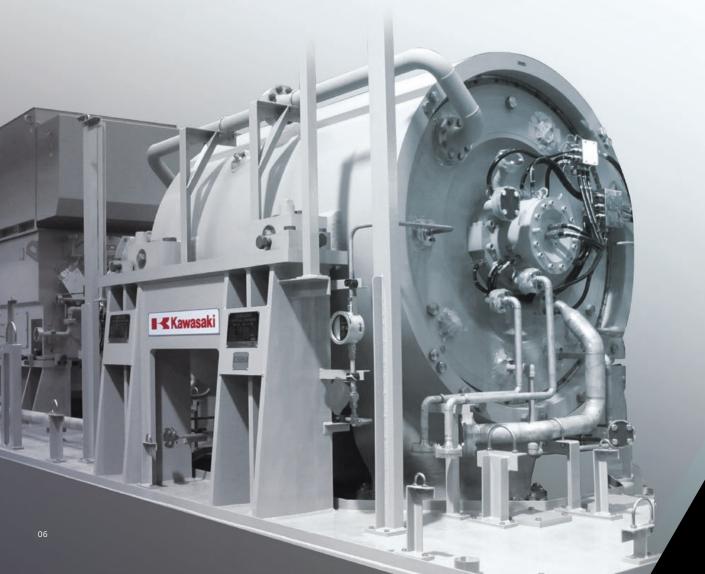
Efficient Ecofriendly

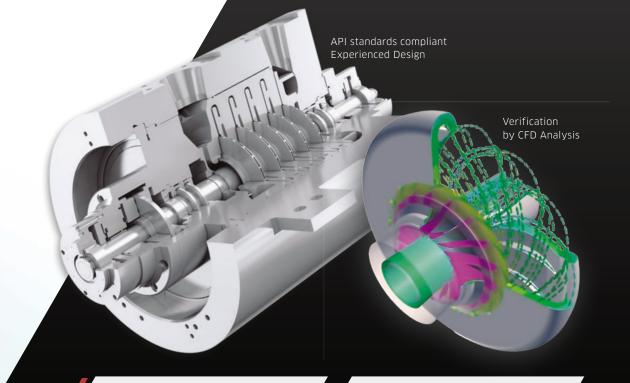
Easy

Our evolutionary machine offers Easy, Efficient and Ecofriendly solutions to optimize lifetime cost required for installation, operation and maintenance of customer's gas compression systems.

MAG Comp is expected to be used anywhere even in severe conditions such as unmanned remote locations, deserts and extremely cold climates.

KAWASAKI CENTRIFUGAL COMPRESSOR





High Reliability

The "Kawasaki Centrifugal Compressor" is a reputable brand of gas compressors in conformity with API standards sold all around the world in both offshore & onshore areas with enormous proven track records over half century.

Its history is that of a arhighly reliable machine.

High Efficiency

trifugal Impellers as well as the stationary aero passage design are optimized applying advanced technologies such as 3D-impellers, brazing, sealing component improvement, etc. to ensure top class high efficiency and appropriate head characteristic, followed by repeated CFD study and in-house verification testing.

ACTIVE MAGNETIC BEARINGS

No Contact Rotation No Mechanical Loss No Lubrication

Rotor Levitation

Magnetic Bearing

The bearings we use levitate and precisely control the rotor system through magnetic force. Active magnetic bearing controller uses position sensors to accurately determine the rotor's position at all times.

The rotor is maintained in its position by controlling the amount of electric currents that flows through the bearings.

Position Sensors

Magnetic Bearing (Electromagnet)

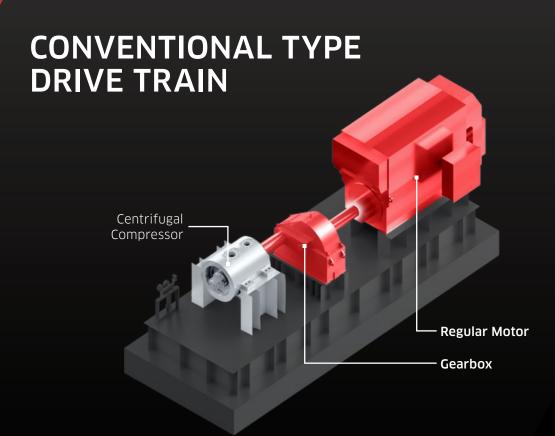
While in operation, the bearings do not contact with the rotors, completely eliminating friction inside the bearing, and its high damping capabilities enable a stable operation over a wide speed range.

Active Magnetic

Bearing Controller

Control Signal

Magnetic Force



Regular Motor + Gearbox

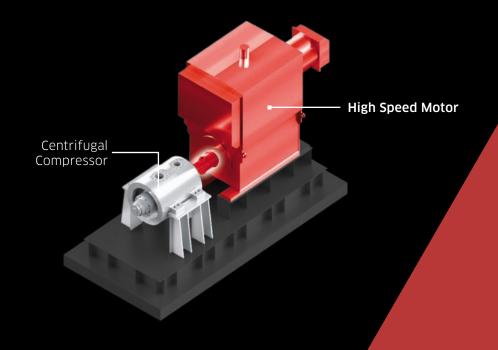
Driver Regular Motor
(3 Phase Induction Motor)

Bearing Fluid Dynamic Bearing

Gearing Required (Speed Increasing)

Lubrication Required (Forced Lubrication)

MA€Comp[™] DRIVE TRAIN



High Speed Motor

Driver High Speed Motor

Bearing Active Magnetic Bearing

Gearing None
Lubrication None

FIVE OUTSTANDING FEATURES

The combination of the three proven technologies provides outstanding features which embody our Triple-E concept: Easy, Efficient and Ecofriendly.

01
FEWER
COMPONENTS

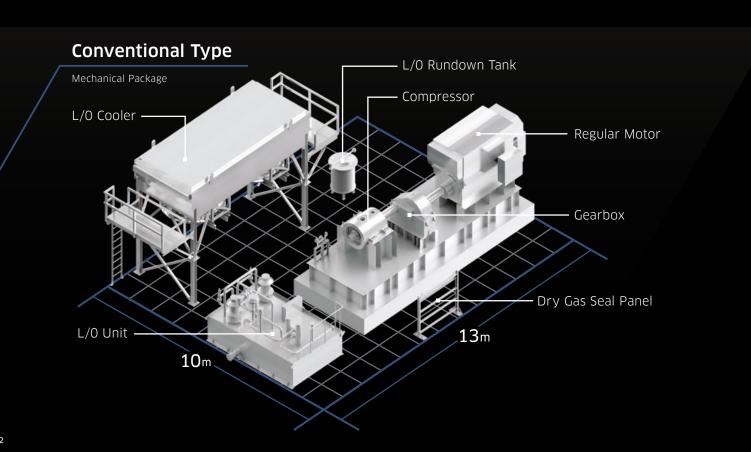
No Gearbox No Lube Oil System 02 LESS SPACE

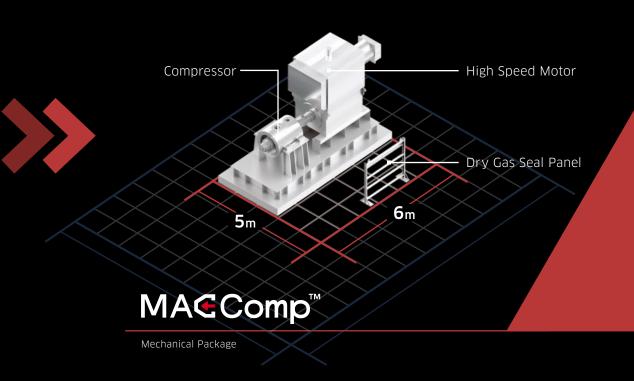
Approx. 75% Reduced 03 LESS WEIGHT

Approx. 35% Reduced 04
LESS
SITE WORK

Save Time Save Money 05
LESS
EMISSIONS

No Oil, Less Noise, Less Heat, Fewer Consumables, etc.







MA€Comp[™]

Designed by Kawasaki in Japan

Kawasaki Heavy Industries, Ltd.

Energy System & Plant Engineering Company

https://www.khi.co.jp/

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