KOBELCO
KOBE STEEL GROUP

Heart to Heart

our way of saying that we view things from our customersperspective. Through this market-oriented approach to doing business, we want to contribute to society.

OIL FLOODED SCREW COMPRESSORS

KOBELION SG
SCREW COMPRESSOR

OIL FLOODED SCREW AIR COMPRESSORS

SG15–75A
SG22–75AV
15–75kW

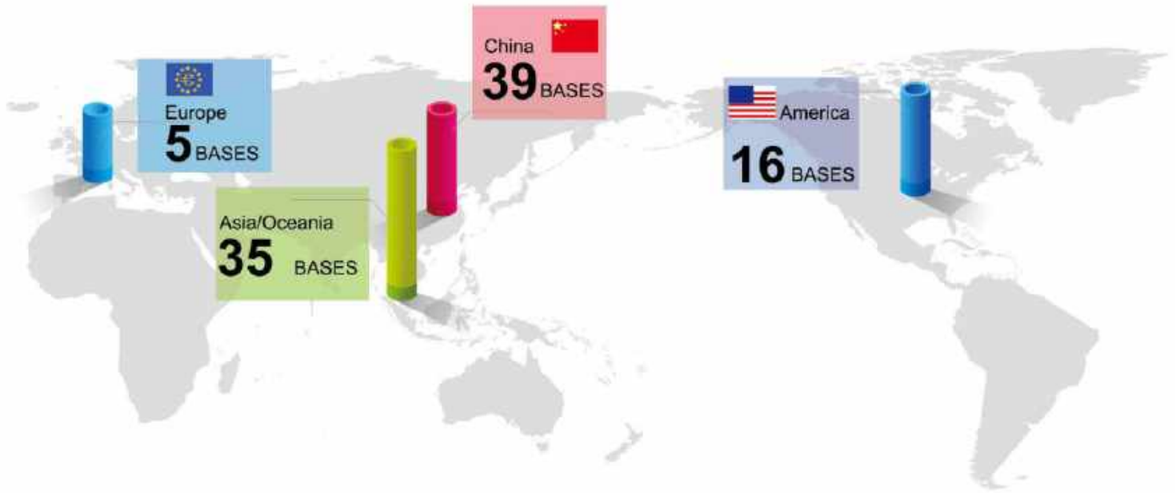
KOBELCO
KOBE STEEL GROUP

KOBELCO COMPRESSORS

※Specifications and descriptions herein may change without notice.

SG-AE-00 SH1502

KOBE STEEL GROUP Overseas Base



About KOBELCO

KOBELCO is a corporate brand of KOBE STEEL GROUP who is a major steel producer in Japan founded in 1905.

KOBE STEEL adopts diversified farming system and has 8 major business unit, Iron & Steel, Aluminum & Copper, Welding, Machinery, Engineering, Construction Machinery, Mobile Crane, and other business unit like Real Estate.

Each business unit is leading Japanese industry with its 'Only One / Number One' technology.

Now the consolidate subsidiaries are more than 200, and total numbers of employee reaches 35,469 in 03.2012.

Fortune 500 company

Magazine as one of the world's top 500 corporations

Group Name: Kobe Steel. LTD.
Unified Trademark: KOBELCO
Founding Date: Sep.1, 1905

KOBELCO
KOBE STEEL GROUP

About KOBELCO Compressors

Since 1915

Kobelco has a long history of compressors manufacturing and technologies since it produced a high pressure reciprocating compressor for the first time in Japan in 1915. It made Japan's first oil-free screw compressor in 1956. In addition, it began to get involved in the production of centrifugal compressor in 1966, thus becoming one of the world's few co mprehensive compressor manufacturers that can produce all piston, screw, centrifugal compressors.

Kobelco, as a material producer, is acquainted with material characteristics and properties, as well as material processing technology. It can develop and produce high efficiency, high performance, high quality products. Its experienced techniques and proven product quality, as well as the eternal pioneer spirit and the pursuit of a more perfect quality make it the industry leader.

Nowadays, Kobelco produces oil-injected and oil-free screw compressors in Japan, US and China and supplys to all over the world.

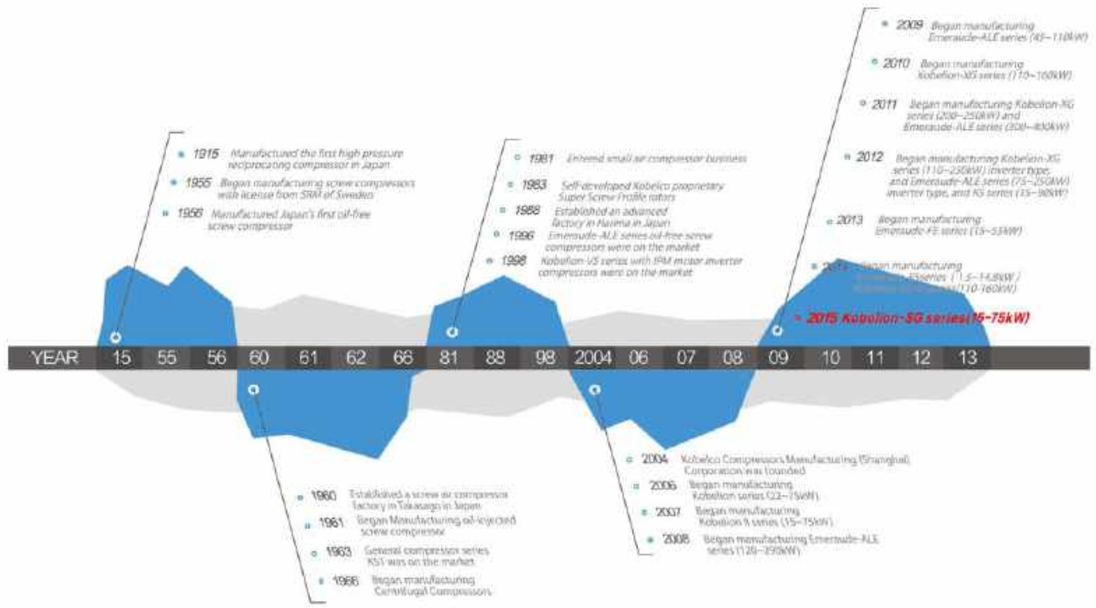
1915年 ›
1956年
1966年
1988年
1997年
2004年
2015年 ›

Japan's first high pressure compressor

KOBELON SG

Kobelco factory is certified by ISO9001 Quality management, and ISO14001 Environmental Management.

KOBELCO COMPRESSORS DEVELOPMENT HISTORY



Inherit history and experienced expertise!

Kobelion series oil flooded screw compressors incorporate Kobelco's half a century's expertise in screw compressor research and manufacture. It takes the highest flow capacity worldwide as the center, and also has both the highest performance and the best quality in the global market.

State-of-the-art Airend from Japan — Energy saving

Kobelion series adopts large diameter screw airends made by Kobelco in Japan, to ensure high quality and performance.

Adapt to harsh ambient temperature — Reliability

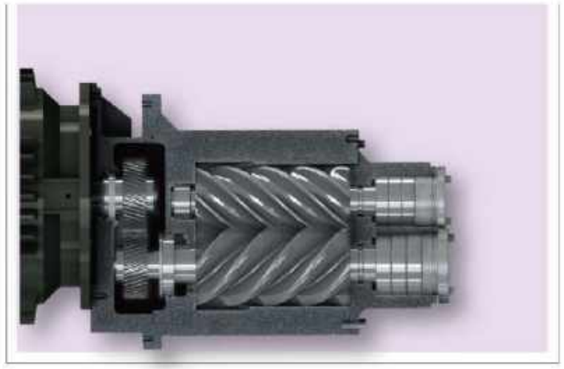
It has abundant cooling margin and can run safely even at extreme ambient condition.

Optimized controller — Easy to operate

Function-rich controller facilitates operation and saves time.
There is an option for group coordination of up to8 units.(Optional)

High efficient drive system — Reliability

Kobelion series adopts gear transmission, avoiding energy loss caused by belt drive, as well as avoiding sophisticated belt adjusting and replacing work. Non-coupling design can reduce energy loss, increase reliability, as well as lower maintenance cost by cutting down parts quantities.



KOBELIONSG
SCREW COMPRESSOR

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Proven high reliability isn' t a transient glory, but a permanent value beyond era and nations. It represents various beginnings of the prelude to the ballrooms.

- SG15-75A
  SG22-75AV
  15-75kW

Proven reliable crystal of technology

We have been innovating ceaselessly to provide you with the optimized compressed air solution since it produced Japan's first high pressure piston compressor in 1915.

The highest flow capacity

It adopts big diameter screw airends to offer the highest capacity in the world.
SG V inverter models adopt wide range control to discharge big air capacity when pressure is low.

Easy maintenance

Easy for maintaining and long interval period.

High reliability

High efficient inlet/outlet systems to ensure adapting to high ambient temperature.

Low noise

Lower pulsation noise, improve tone quality.

Inverter driving --The Perfect reflection of high performance and energy saving!

KOBELION SG INVETER

The combination of the most advanced motor technology and inverter technology, to reflect excellent reliability and energy saving.

Expertise by many years' experience, and dedicated design!

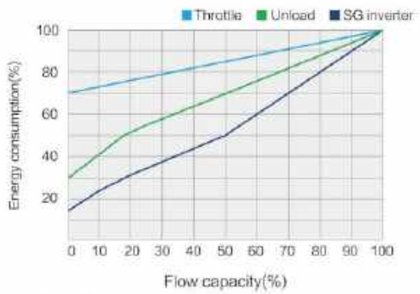
STANDARD KOBELION SG

Gather Kobelco's mature screw compressor technology to ensure high efficiency and reliability.

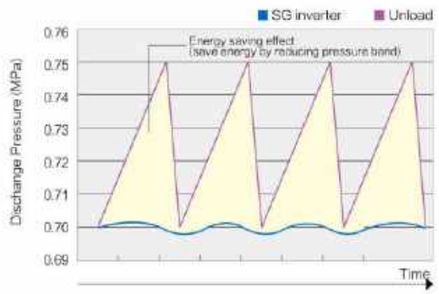
■ Adopt wide range capacity control function and constant pressure control to reduce power consumption

Kobelco's exclusive inverter and Energy Saving Logic control can get optimized energy saving effect, no matter what load condition it is.
They can trace the pressure changes quickly and contain the pressure fluctuation in ±0.01MPa, supply necessary flow capacity by optimized power.

■Energy saving characteristics



■Capacity regulation

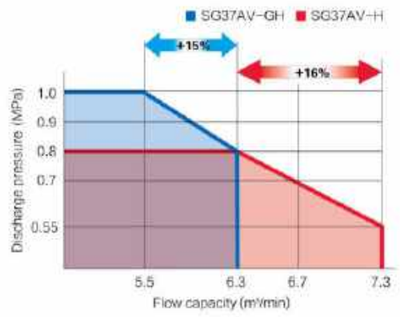


■ Adopt increase capacity range control in low pressure

Wide Range Control

It significantly expands the flow capacity range when running inlow pressure, increases the maximum flow capacity, and provides the best solutions for energy-saving requirements.

■Wide capacity range regulation



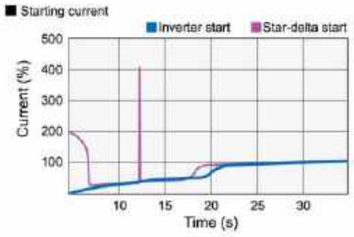
■ Other characteristics

High frequency reactor is a standard configuration to filter out high frequency harmonics produced by inverter.
Forced cooling on inverter prevents trip at high temperature in summer.
Coating on electronic panel can resist dirt and moisture effectively and enduringly.

■ Inverter starter

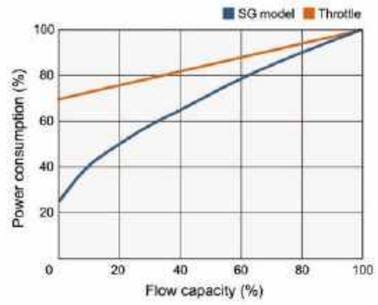
Reduce starting current and torque to realize steady soft startup, as well as lower electrical devices cost.

■ Starting current



■ Unload regulation reduces energy consumption

SG series adopt unload/load mode which has better energy consumptions efficiency compared to previous modulating mode.
In addition, big unloading valves are treated by special oxidized aluminum membrane. It assures steady air supply and energy saving by loading and unloading.

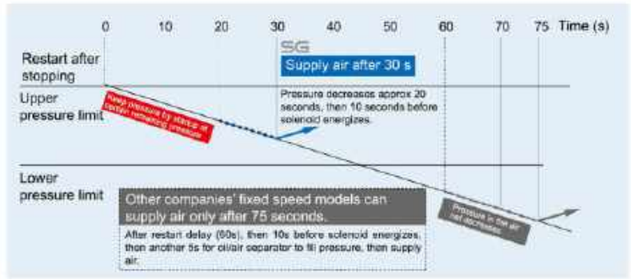


■ High efficient inlet/outlet systems

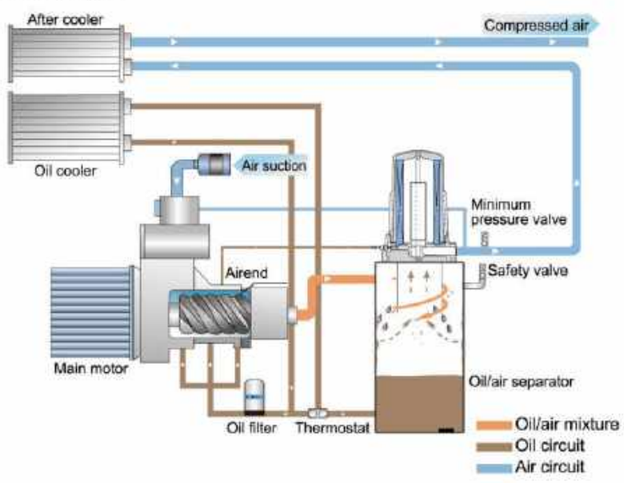
Cold/warm cooling air sections and professional air duct design, which consider fully of internal flow pattern and thermal pattern, ensures adaptation to high ambient temperature, as well as reducing noise.
It also considers fully of temperature rises around thermal sensitive parts and controller.

■ Can start up with certain remaining pressure

It can supply air at certain remaining pressure.
It is better than other companies' models which require 1 minute starting delay, to avoid pressure drops beneath lower limit.



■ Flow diagram



Elaborate design of all details

Guarantee high quality air

■Supply clean air

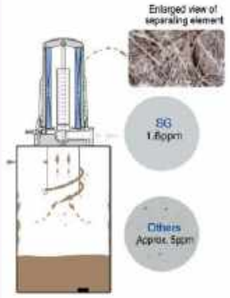
SG series ensures air quality by adopting high efficient air inlet filter and oil filter.

◎Inlet air treatment

As countermeasure of dusty ambient, to adopt centrifugal separation and filter separation, to improve dust collection efficiency and reliability.

◎Oil treatment

Reduce remaining oil in the outlet air to less than 1.6 ppm by 3 steps high efficient oil separation: centrifugal force, gravity, and filtration.



1st step Centrifugal separation

The mixture of compressed air and oil from airend rotates in the oil separator, oil is separated by centrifugal force.

2nd step Gravity

The oil which is separated by centrifugal force to the inner wall flows down to the bottom by gravity.
There are several magnets at the bottom of the separator to filter out metal scraps in the air stream, in order not to scratch the separating element.

3rd step Filtration

Adopt big separating elements to suit its flow capacity.
The cylindrical separating element is mainly composed of fiber, to filter out the remaining oil mist.

■High efficient oil filter

Adopt big oil filter with high separating efficiency to ensure clean oil, as well as prolong oil and related parts' service life.

■High efficient coolers

Oil cooler and after cooler are separated to not only improve efficiency, but also avoid damaging coolers due to different temperatures, so as to prolong their lifetime.

■No condensate accumulation

No condensate appears due to thermostat, needn't remove condensate.

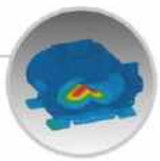
■Kobelco Tough Grease

Adopt Kobelco' s patented TOUGH grease to improve motor efficiency by 2%, as well as ensure more stable running because of its long service interval and high temperature endurance.
※Only 55-75kW

■Oil

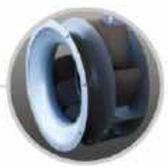
Newly developed high performance synthetic oil (Extra oil).
RBOT test time can be up to 5 times longer than ordinary air screw compressor service time, with sludge volume less than 1/10.

■Low noise

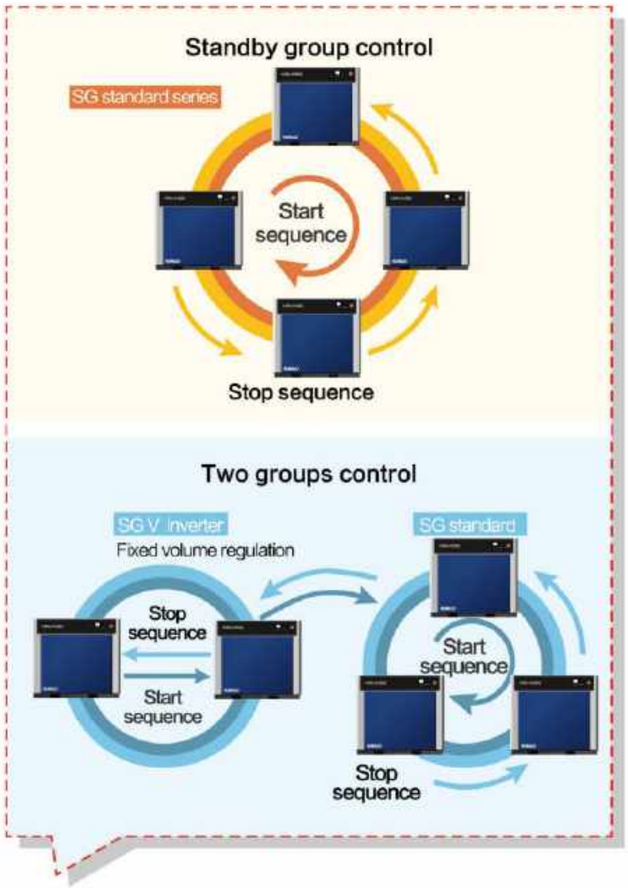


Adopt advanced new FEM analysis, new designed structure, optimized muffle material, etc. to achieve super low running noise.
Consider fully of sound pressure/sound tone/sound volume by adding insulation boards and air duct etc, to reduce noise which is the lowest in its category.

■Centrifugal fan



The low speed centrifugal fan produces a large amount of cooling air with high efficiency and low energy consumption.



■Group control (Optional)

By installing a Kobelco proprietary communication module of RS485, there are up to 8 air compressors that can be group controlled.
For standby group control, the standby compressors will startup one after another if the compressed air is insufficient after the first compressor starts.
For two groups' control, we can put fixed speed units and inverter units at two different groups respectively, to achieve more ideal energy saving effect.

■Intelligent control system

IP65 protection, LCD high resolution display with background light.
Automatic operation with abundant icon display.
Several communication ways can be chosen.
Qualified by IEC61000 EMC test, certified by UL, CE.

■Standard functions

It can self-diagnose, display data, caution, and emergency stop the machine, etc. It protects components such as motor, fan, etc in the air compressor.
Daily management handling is very easy, such as operation mode setting, pressure setting, language setting, as well as screen display, etc.
It displays abundant informations about air compressor's operation and maintenance, let operator know its operation status timely.
Running log can be read. It can record up to 50 latest malfunction events.
It can switch language setting between Chinese and English.
It can be reset automatically.

■Powerful communication function(Optional)

By installing a Kobelco proprietary communication module of RS485, controller can set communication protocol of RS485 by software, or select MODBUS as a means of communication between master and slave compressors, or connect with other same configured controllers as a network for ISC control. Customer can remotely control the air compressor by the I/O interfaces on the controller.

Specifications

SG V INVERTER SERIES

Model	Max. pressure (MPa)	Flow capacity(m³/min) 0.55MPa	0.7 MPa	0.8 MPa	1.0MPa	Motor power (kW)	Connection	Dimensions dB(A)	Dimensions(mm) L	W	H	Weight (kg)
SG22AV-H	0.85	4.1	3.7	3.4	-	22	$R_2$1	58	1,500	880	1,350	730
SG37AV-H		7.3	6.7	6.3		37	$R_2$1 1/2	65	1,740	970	1,550	940
SG55AV-H		10.5	10.0	9.5		55	$R_2$2	66	2,050	1,280	1,750	1,680
SG75AV-H		14.6	13.5	12.7		75	$R_2$2 1/2	67	2,050	1,280	1,750	2,240
SG22AV-GH	1.05	3.4	3.4	3.4	2.9	22	$R_2$1	58	1,500	880	1,350	730
SG37AV-GH		6.3	6.3	6.3	5.5	37	$R_2$1 1/2	65	1,740	970	1,550	940
SG55AV-GH		9.5	9.5	9.5	8.6	55	$R_2$2	66	2,050	1,280	1,750	1,680
SG75AV-GH		12.7	12.7	12.7	11.1	75	$R_2$2 1/2	67	2,050	1,280	1,750	2,240

SG SERIES

Model	Max. pressure (MPa)	Flow capacity (m³/min)	Motor power (kW)	Connection	Dimensions dB(A)	Dimensions(mm) L	W	H	Weight (kg)
SG15A	0.75	2.5	15	$R_2$1	57	1,500	880	1,350	640
SG22A		3.7	22	$R_2$1	58	1,500	880	1,350	700
SG30A		5.4	30	$R_2$1 1/2	61	1,740	970	1,550	840
SG37A		6.7	37	$R_2$1 1/2	65	1,740	970	1,550	890
SG55A		10.0	55	$R_2$2	66	2,050	1,280	1,750	1,640
SG75A		13.5	75	$R_2$2 1/2	67	2,050	1,280	1,750	2,190
SG15A-H	0.85	2.25	15	$R_2$1	57	1,500	880	1,350	640
SG22A-H		3.4	22	$R_2$1	58	1,500	880	1,350	700
SG30A-H		4.9	30	$R_2$1 1/2	61	1,740	970	1,550	840
SG37A-H		6.3	37	$R_2$1 1/2	65	1,740	970	1,550	890
SG55A-H		9.5	55	$R_2$2	66	2,050	1,280	1,750	1,640
SG75A-H		12.7	75	$R_2$2 1/2	67	2,050	1,280	1,750	2,190
SG15A-GH	1.05	1.86	15	$R_2$1	57	1,500	880	1,350	640
SG22A-GH		2.9	22	$R_2$1	58	1,500	880	1,350	700
SG30A-GH		4.3	30	$R_2$1 1/2	61	1,740	970	1,550	840
SG37A-GH		5.5	37	$R_2$1 1/2	65	1,740	970	1,550	890
SG55A-GH		8.6	55	$R_2$2	66	2,050	1,280	1,750	1,640
SG75A-GH		11.1	75	$R_2$2 1/2	67	2,050	1,280	1,750	2,190

※please refer to《Standard Speafication Manual》for more details

MODEL NAME EXPLANATION

SG 37 A V- H

Series	Motor output	Cooling method	Starting system	Pressure
SG	15~75kW	A: Air cooled	Nil: Star-delta V: Inverter	Nil: 0.75MPa H: 0.85MPa GH: 1.05MPa

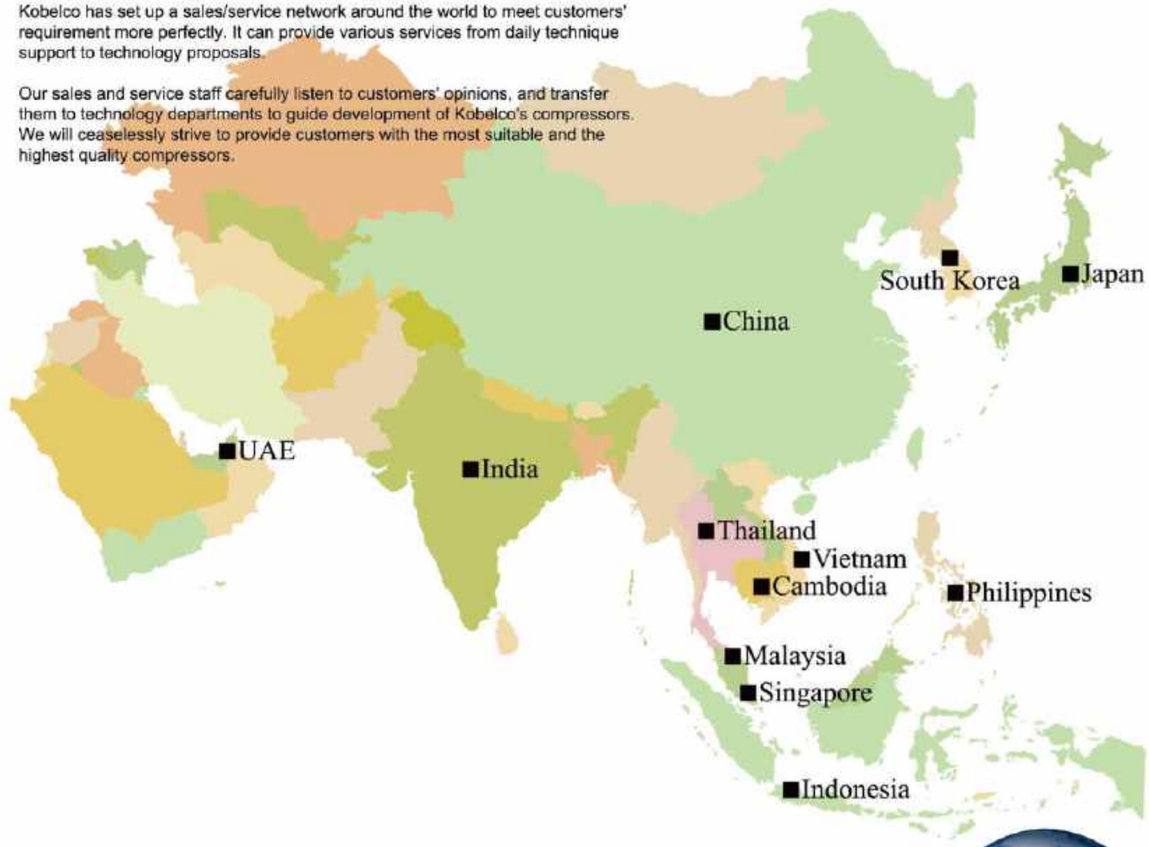
■ Notes:
Power supply: 380,415V/50Hz/3ph/3wire
Flow capacity: Value converted to inlet conditions
Air inlet conditions: 1 bar, 20℃, 0%

Provide a full range of services

KOBELCO NET WORK

Kobelco has set up a sales/service network around the world to meet customers' requirement more perfectly. It can provide various services from daily technique support to technology proposals.

Our sales and service staff carefully listen to customers' opinions, and transfer them to technology departments to guide development of Kobelco's compressors. We will ceaselessly strive to provide customers with the most suitable and the highest quality compressors.



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KOBE STEEL GROUP

OIL FLOODED SCREW COMPRESSORS

KOBELION VS·AG
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OIL FLOODED SCREW AIR COMPRESSORS

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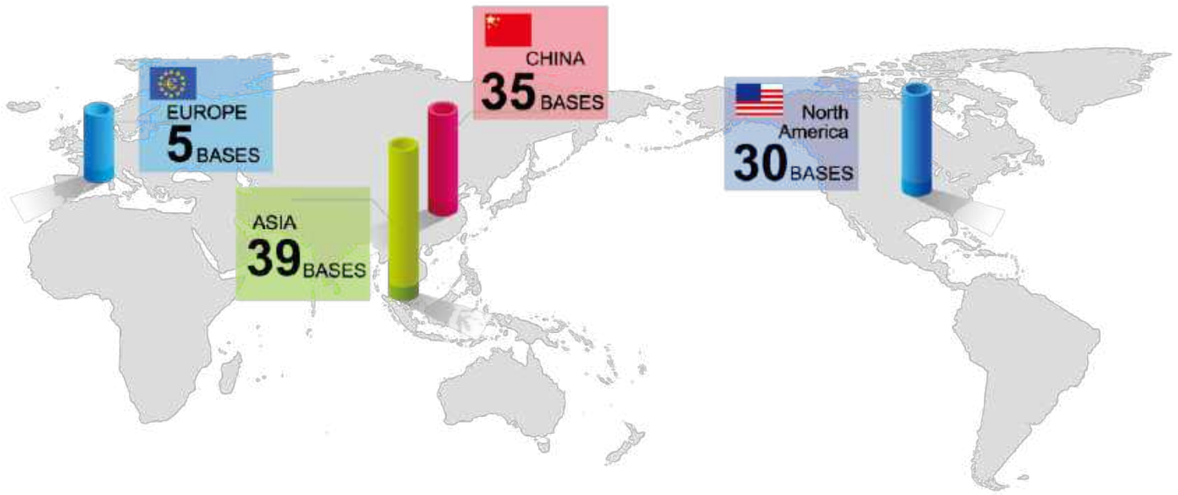

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1915
1956
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1988
1997
2004
2013

Japan's first high pressure compressor

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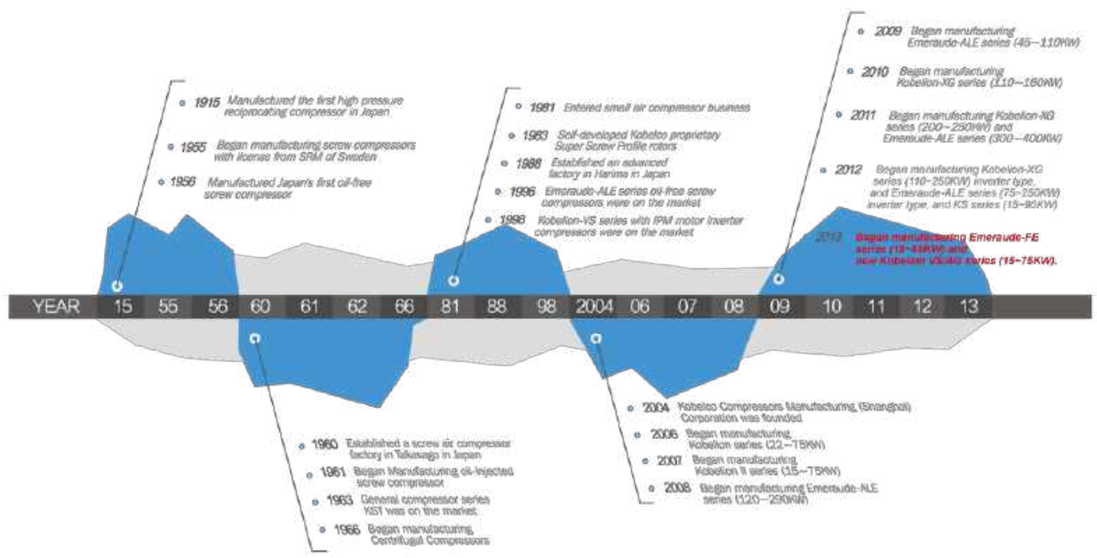

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Adapt to harsh ambient temperature — Reliability

It has abundant cooling margin and can run safely even at extreme ambient condition.

High performance controller — Easy to operate

Adopt new touch type liquid crystal display, more easy to operate and time saving. It can coordinate up to 6 units without an additional group controller.

High efficient drive system — Reliability

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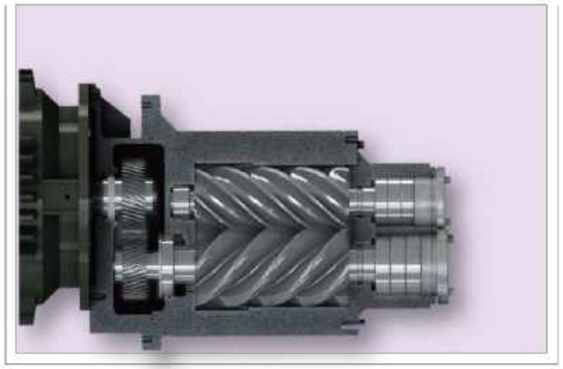

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- VS22-75A
  AG15-75A
  15-75kW

Proven reliable crystal of technology

We have been innovating ceaselessly to provide you with the optimized compressed air solution since it produced Japan's first high pressure piston compressor in 1915.

High reliability

High efficient inlet/outlet systems to ensure adapting to high ambient temperature.

The highest flow capacity

It adopts big diameter screw airends to offer the highest capacity in the world.
VS inverter models adopt wide range control to discharge big air capacity when pressure is low.

Easy maintenance

Easy for maintaining and long interval period.

High efficiency and energy saving

This series adopts gear transmission without coupling design in order to reduce energy loss.
Kobelco's patent — Energy Saving Logic function.

Low noise

Lower pulsation noise, improve tone quality.

Inverter driving -- The Perfect reflection of high performance and energy saving!

KOBELION VS SCREW COMPRESSOR

The combination of the most advanced motor technique and inverter technology.
Adopt the best Premium motor with high efficient inverter to reflect excellent reliability and energy saving.

■ The highest flow capacity worldwide

It adopts newly developed airend with bigger screws, to optimize structure and supply the highest capacity in the world.

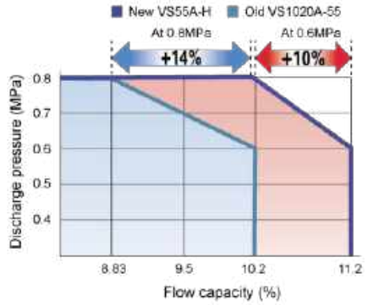
Motor power	kW	22	37	55	75
Flow capacity	m^3/min	4.2	7.6	11.2	15.7
Increasing percentage	%	–	4%	10%	5%

※Compared with old model at 0.6 MPa outlet pressure.

■ Adopt function of increasing flow rate when it is in low discharge pressure

Wide Range Control

Increases flow rate by using the surplus power when it is running in low discharge pressure.



Expand flow capacity range in low pressure to increase its maximum capacity, as well as supply optimized solution for energy saving.
—— Offer the most suitable pressure and the maximum flow capacity by Wide Range Control.

■ VS55A-H's capacity variation under Wide Range Control

Discharge pressure (MPa)	0.8	0.7	0.6	0.55
Capacity (m^3/min)	10.1	10.7	11.2	11.2
Added flow capacity (%)	100	106	111	111

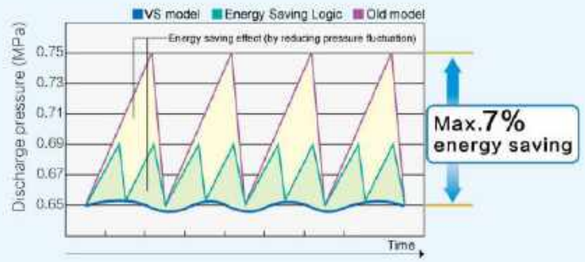
■ Adopt wide range capacity control function and constant pressure control to reduce power consumption

Kobelco's exclusive inverter and Energy Saving Logic control can get optimized energy saving effect, no matter what load condition it is. They can trace the pressure changes quickly and contain the pressure fluctuation in ±0.01MPa, supply necessary flow capacity by optimized power.

■ Inverter control

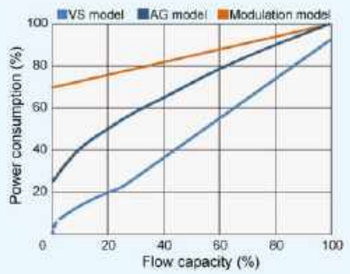
■ Energy saving by constant pressure control

Pressure fluctuation can be controlled within ±0.01MPa.



■ Regulate flow capacity by changing rotating speed

■ Energy saving characteristics

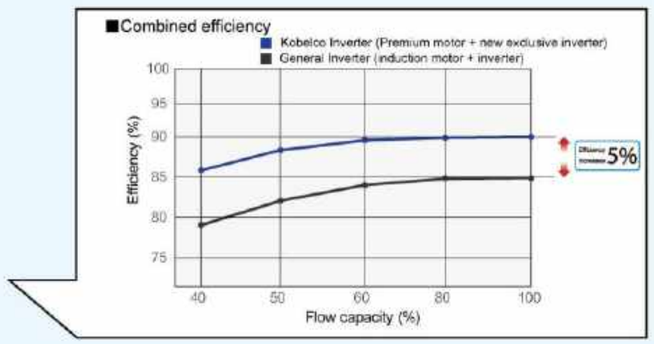


■ Energy saving example (VS55A compare with standard model)

Calculation conditions:
Running 6000 hours/year. Unit price: 0.15 US$/KWh. Average loading rate: 60%.

■ Advanced PREMIUM MOTOR

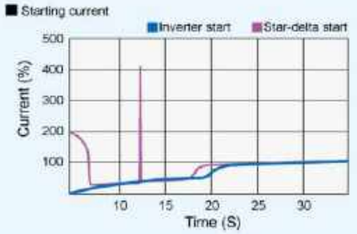
Adopt IE3 premium motor with class F insulation and IP55 protection, which prevents dust and water from entering.
Adopt high temperature bearings to prolong motor's service life.



■ Inverter starter

Reduce starting current and torque to realize steady soft startup, as well as lower electrical devices cost.

■ Starting current



■ Other characteristics

High frequency reactor is a standard configuration to filter out high frequency harmonics produced by inverter.

Forced cooling on inverter prevents trip at high temperature in summer.

Coating on electronic panel can resist dirt and moisture effectively and enduringly.

Expertise by many years' experience, and dedicated design!

KOBELION AG SCREW COMPRESSOR

AG series incorporate Kobelco's proven screw compressor technology to ensure high efficiency and reliability, make your factory peace of mind.

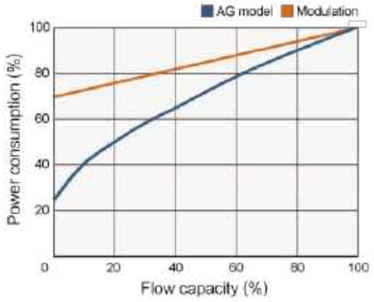
The highest flow capacity worldwide

Its newly developed compressor's "heart" — airend, with bigger screws, to optimize structure and supply the highest capacity in the world.

Motor power	kW	15	22	30	37	55	75
Flow capacity	m^3/min	2.75	3.91	5.8	7.2	10.7	14.9

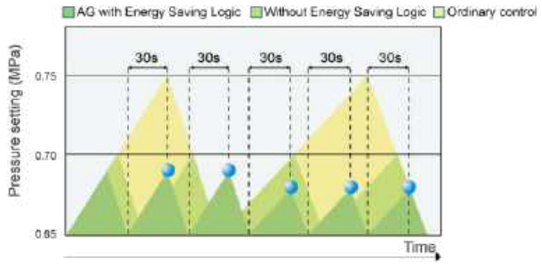
Unload regulation reduces energy consumption

AG series adopt unload/load mode which has better energy consumptions efficiency compared to previous modulating mode.
In addition, big unloading valves are treated by special oxidized aluminum membrane. It assures steady air supply and energy saving by loading and unloading.



Energy Saving Logic Kobelco Patent

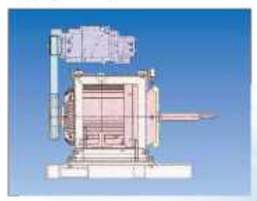
It can unload the compressor in advance if unload/load cycle is longer than setting time (30 seconds). Thus lower pressure fluctuation and eliminate energy consumption caused by unnecessary pressure rise.



Direct drive transmission

There is a gearbox between airend and motor without coupling, in order to reduce mechanical losses. Compared with belt driving, it avoids energy loss caused by belt transmission, as well as trifle maintenance on belt and pulley. Air supply will stop if belt breaks.

Speed up gears



Speed up belt (ordinary model)

Energy saving centrifugal fan

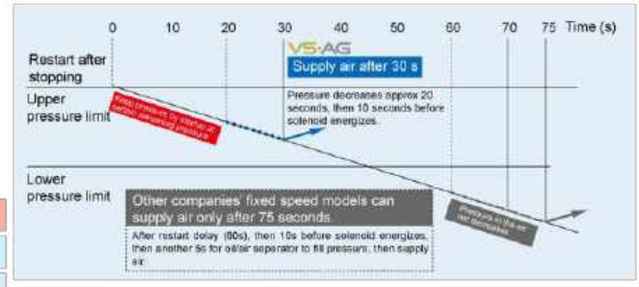
Fan motor's energy consumption is reduced up to 68% compared with other same power models.

Main motor power (KW)	15	22	30	37
Old fan motor (KW)	0.75	0.75	2.1	2.2
New fan motor (KW)	0.55	0.55	1.1	1.5
Power reduction	27%	27%	50%	68%

※For all VS/AG series.

Can start up with certain remaining pressure

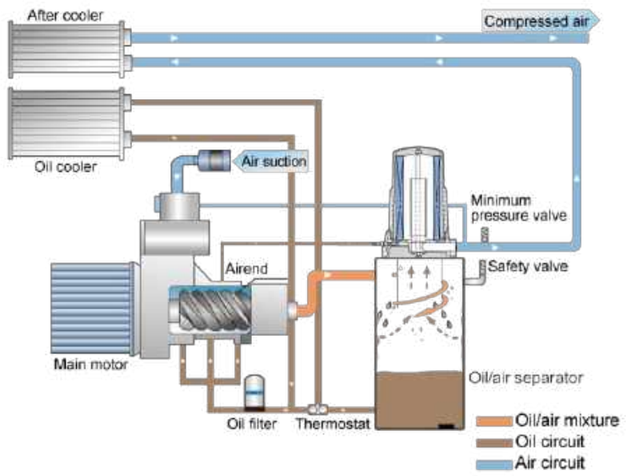
It can supply air at certain remaining pressure.
It is better than other companies' models which require 1 minute starting delay, to avoid pressure drops beneath lower limit.



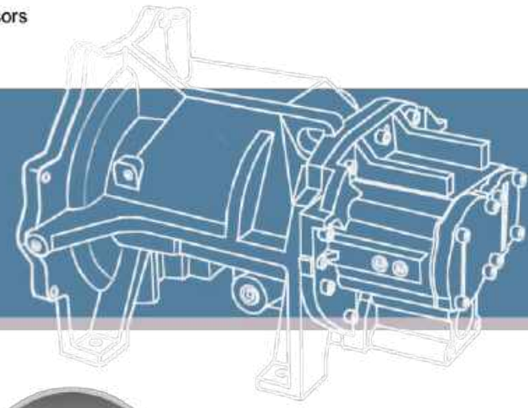
High efficient inlet/outlet systems

Cold/warm cooling air sections and professional air duct design, which consider fully of internal flow pattern and thermal pattern, ensures adaptation to high ambient temperature, as well as reducing noise.
It also considers fully of temperature rises around thermal sensitive parts and controller.

■ Flow diagram



Elaborate Design of Details



■ High efficient coolers

Oil cooler and after cooler are separated to not only improve efficiency, but also avoid damaging coolers due to different temperatures, so as to prolong their lifetime.

■ Centrifugal fan

The low speed centrifugal fan produces a large amount of cooling air with high efficiency and low energy consumption.

■ KOBELCO TOUGH GREASE

Adopt Kobelco's patented TOUGH grease to improve motor efficiency by 2%, as well as ensure more stable running because of its long service interval and high temperature endurance.

※Only 55–75kW.

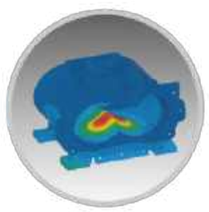
■ Oil

Newly developed high performance synthetic oil (Extra oil).
RBOT test time can be up to 5 times longer than ordinary air screw compressor service time, with sludge volume less than 1/10.

■ High efficient motors

Insulation class F, protection class IP55 effectively prevent dust and water from entering motor.
In addition, it is standard configured with Phase Sequence Relay to prevent motor from reverse rotation, in order to protect units.
It also contains thermocouple to detect motor coil's temperature to protect motor.

■ Low noise



Adopt advanced new FEM analysis, new designed structure, optimized muffle material, etc. to achieve super low running noise.
Consider fully of sound pressure/sound tone/sound volume by adding insulation boards and air duct etc, to reduce noise which is the lowest in its category.

■ Adopt big high efficient air inlet filters

Adopt big air inlet filters to reduce pressure loss and prolong cleaning interval, in order to cope with dusty environment.
Centrifugal + filtration: 2 steps separation.
ISO 5011 dust filtering accuracy 99.98%.

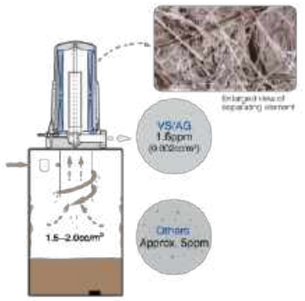
■ Oil separator

Reduce remaining oil in the outlet air to less than 1.6 ppm by 3 steps high efficient oil separation: centrifugal force, gravity, and filtration.

1st step Centrifugal force
The mixture of compressed air and oil from airend rotates in the oil separator, oil is separated by centrifugal force.

2nd step Gravity
The oil which is separated by centrifugal force to the inner wall flows down to the bottom by gravity.
There are several magnets at the bottom of the separator to filter out metal scraps in the air stream, in order not to scratch the separating element.

3rd step Filtration
Adopt big separating elements to suit its flow capacity.
The cylindrical separating element is mainly composed of fiber, to filter out the remaining oil mist.



■ High efficient oil filter

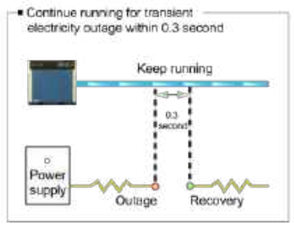
Adopt big oil filter with high separating efficiency to ensure clean oil, as well as prolong oil and related parts' service life.

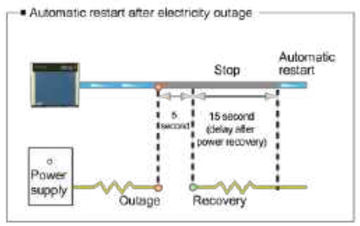
■ Perfect electrical protections

◆ Setting for transient electricity outage...within 0.3 sec.
The compressor doesn't stop if electricity outage is within the setting time. The compressor will stop only when electricity outage exceeds the setting time. (For AG it is 0.2 sec.)

◆ Setting for automatic restart after electricity outage...1~20sec.
(Example as right) Resuming electricity is set at 5 sec, delay setting is 15 sec. after electricity resumes.

◆ Built-in 7,500V surge protector and noise filter.





Function Rich Big ITCS Controller

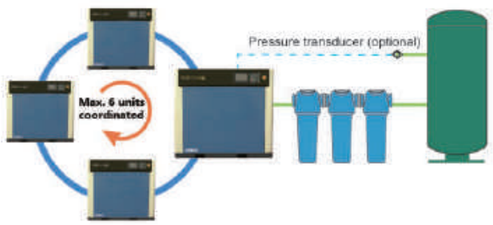
The new liquid crystal electronic controller

■ New functions

- 7 inches big LCD high resolution screen with background lighting
- Multiple units control
- Standard configured MODBUS module
- USB data download function
- Over current protection
- Flow chart display
- 3 pressure settings
- Many password protections

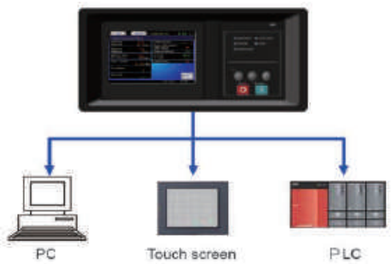
■ Standard configured multiple units control function

Up to 6 units can be coordinated without an additional multiple-units controller, nor is an additional pressure transducer. These compressors can also be group controlled through an additional pressure transducer installed on the air net.



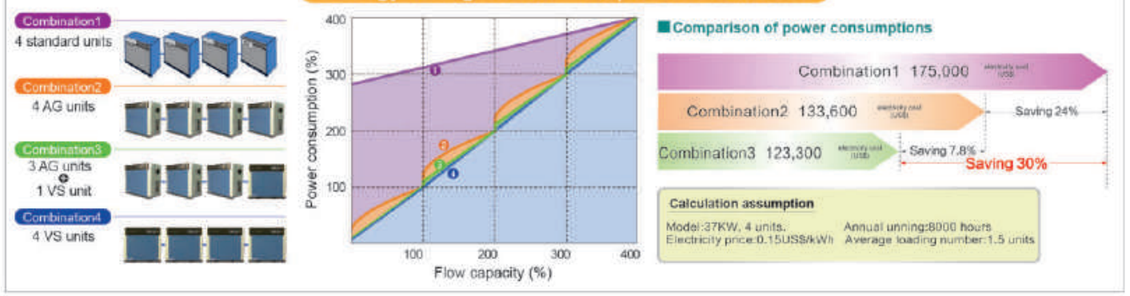
■ Standard configured MODBUS module

MODBUS module is a standard configuration, which can realize Modbus communications that monitor compressors' real time status. It facilitates management and responds to emergencies swiftly.



※Multiple units control function and Modbus function can't be used simultaneously. If you need the two functions simultaneously, please install another multiple-units controller.

Energy saving effect of multiple units controller



Energy Saving Solution

■ Standard configured USB data download function

Detailed running data can be stored. Data before and after an accident can be read. Diagnosed data can be available without installing a measuring instrument.

■ Over current protection

Motor speed will slowdown if inverter detects an over current, in order to continue supply air and prevent emergency shutdown.

※Only VS model.

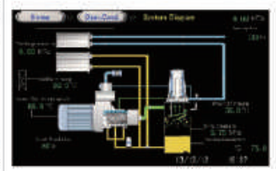
■ Other contents displayed

Home page

Running status

Pressure setting

Flow diagram



Maintenance

Caution

Emergency

Log records

Running status
Many data such as air outlet pressure, pressure in oil separator, loading or unloading, running time, current, inverter consumed current, discharges temperature, temperature of oil separator downstream, ambient temperature, motor coil temperature, air net pressure, etc.

Maintenance
Up to 30 self-diagnose functions, display maintenance/caution/emergency stop signals timely, and corresponding troubleshooting measures. Facilitate daily inspection/maintenance/management, as well as prevent compressor from breaking suddenly to ensure safe production.

Weekly timer
There are at most 7 start/stop combination settings in a week.
Each combination setting can set different pressures.

Running data/charts display
Current data display (every 5 seconds).
Operation data display (each hour of the latest 24 hours).
Display contents: discharge pressure, current, loading rate.

Specifications

VS Inverter Series

Model	Max. pressure (MPa)	Flow capacity (m³/min) 0.55MPa	0.7 MPa	0.8 MPa	1.0MPa	Main motor power (KW)	Outlet connection diameter	Noise dB(A)	Dimensions (mm) W	D	H	Weight (kg)
VS22A-H	0.85	4.2	3.91	3.67	-	22	1"	58	1,500	880	1,350	730
VS37A-H		7.6	7.2	6.9		37	1 1/2"	61	1,740	970	1,550	1,050
VS55A-H		11.2	10.7	10.1		55	2"	64	2,050	1,280	1,750	1,940
VS75A-H		15.7	14.9	13.8		75	2"	67	2,050	1,280	1,750	2,460
VS22A-GH	1.05	3.67	3.67	3.67	3.1	22	1"	58	1,500	880	1,350	730
VS37A-GH		6.9	6.9	6.9	5.8	37	1 1/2"	61	1,740	970	1,550	1,050
VS55A-GH		10.1	10.1	10.1	8.7	55	2"	64	2,050	1,280	1,750	1,940
VS75A-GH		13.8	13.8	13.8	12.2	75	2"	67	2,050	1,280	1,750	2,460

AG Series

Model	Max. pressure (MPa)	Flow capacity (m³/min)	Main motor power(KW)	Outlet connection diameter	Noise dB(A)	Dimensions(mm) W	D	H	Weight (kg)
AG15A	0.75	2.75	15	1"	57	1,500	880	1,350	640
AG22A		3.91	22	1"	58	1,500	880	1,350	700
AG30A		5.8	30	1 1/2"	61	1,740	970	1,550	885
AG37A		7.2	37	1 1/2"	61	1,740	970	1,550	1,000
AG55A		10.7	55	2"	64	2,050	1,280	1,750	1,800
AG75A		14.9	75	2"	67	2,050	1,280	1,750	2,250
AG15A-H	0.85	2.47	15	1"	57	1,500	880	1,350	640
AG22A-H		3.67	22	1"	58	1,500	880	1,350	700
AG30A-H		5.3	30	1 1/2"	61	1,740	970	1,550	885
AG37A-H		6.9	37	1 1/2"	61	1,740	970	1,550	1,000
AG55A-H		10.1	55	2"	64	2,050	1,280	1,750	1,800
AG75A-H		13.8	75	2"	67	2,050	1,280	1,750	2,250
AG15A-GH	1.05	2.05	15	1"	57	1,500	880	1,350	640
AG22A-GH		3.1	22	1"	58	1,500	880	1,350	700
AG30A-GH		4.5	30	1 1/2"	61	1,740	970	1,550	885
AG37A-GH		5.8	37	1 1/2"	61	1,740	970	1,550	1,000
AG55A-GH		8.7	55	2"	64	2,050	1,280	1,750	1,800
AG75A-GH		12.2	75	2"	67	2,050	1,280	1,750	2,250

※For details please refer to "Specification Manual".

Model name explanation (※VS is inverter model, AG is standard)

VS	37	A-	H
Series name	Main motor power	Cooling method	Discharge pressure
VS AG	15~75kW	A: Air cooled	No: 0.75MPa H: 0.85MPa GH: 1.05MPa

■ Notes:

Power supply: 380,415V/50Hz/3ph/3wire

Flow capacity: Convert the outlet flow to the air inlet conditions

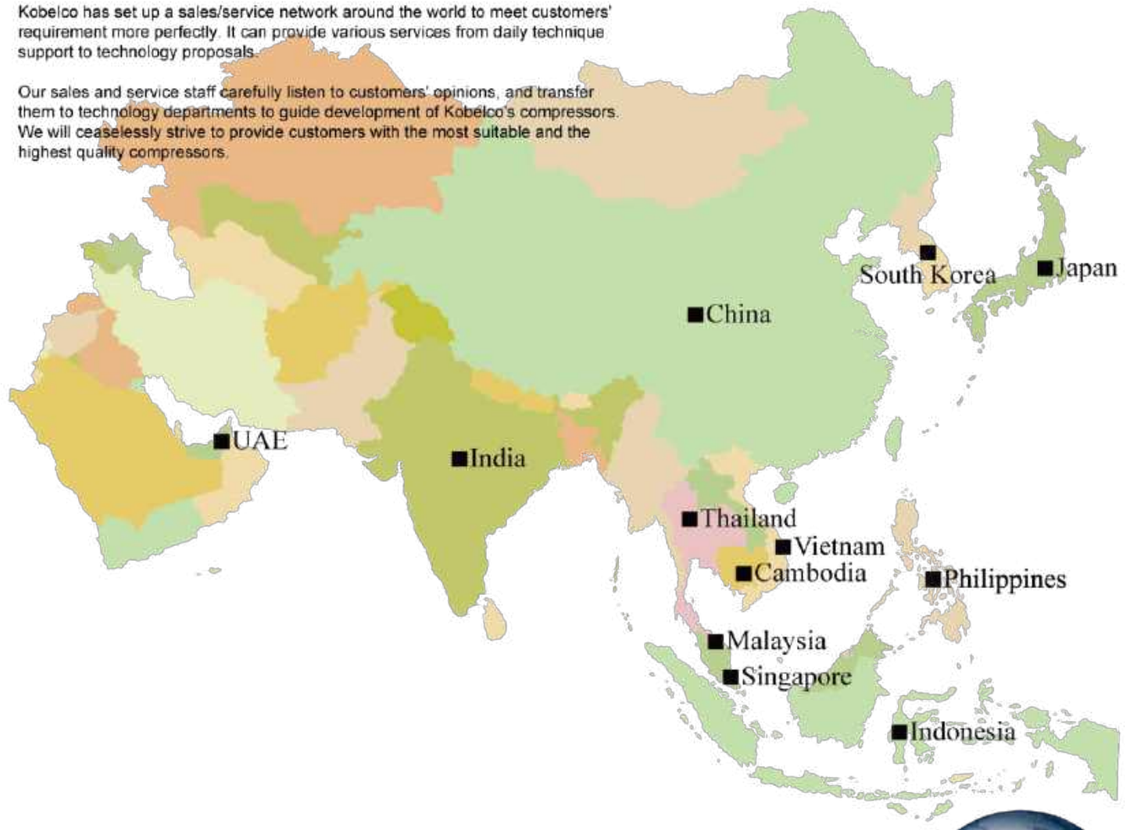
Air inlet conditions: 1 bar, 20℃, 0%

Provide a Full Range of Services

KOBELCO NET WORK

Kobelco has set up a sales/service network around the world to meet customers' requirement more perfectly. It can provide various services from daily technique support to technology proposals.

Our sales and service staff carefully listen to customers' opinions, and transfer them to technology departments to guide development of Kobelco's compressors. We will ceaselessly strive to provide customers with the most suitable and the highest quality compressors.



KOBELCO
KOBE STEEL GROUP

Heart to Heart

our way of saying that we view things from our customersperspective. Through this market-oriented approach to doing business, we want to contribute to society.

BIG OIL FLOODED SCREW COMPRESSORS

KOBELION
SCREW COMPRESSOR

OIL FLOODED SCREW AIR COMPRESSORS

VS110–250AW
AG110–250AW
XG3900–4730W(V)

110-250kW

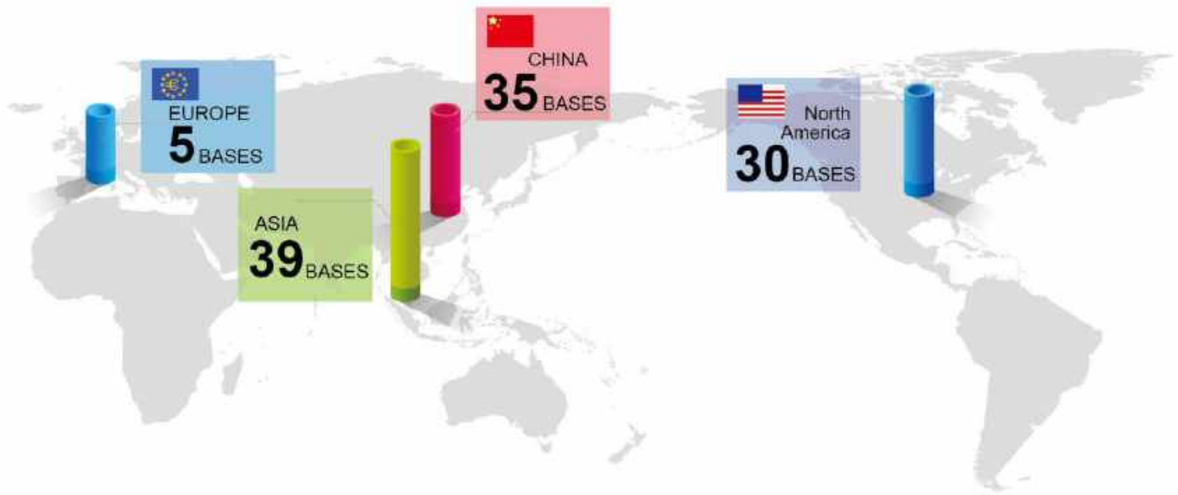
KOBELCO
KOBE STEEL GROUP

KOBELCO COMPRESSORS

※Specifications and descriptions herein may change without notice.

KLX-AE-02 SH1606

KOBE STEEL GROUP Overseas Bases



About KOBELCO

KOBELCO is a corporate brand of KOBE STEEL GROUP who is a major steel producer in Japan founded in 1905.

KOBE STEEL adopts diversified farming system and has 8 major business unit, Iron & Steel, Aluminum & Copper, Welding, Machinery, Engineering, Construction Machinery, Mobile Crane, and other business unit like Real Estate.

Each business unit is leading Japanese industry with its 'Only One / Number One' technology.

Now the consolidate subsidiaries are more than 200, and total numbers of employee reaches 35,469 in 03.2012.

Fortune 500
company
Magazine as one of the world's top 500 corporations

Innovator 100
company
Thomson Reuters Top 100 Global Innovator

Group Name: Kobe Steel. LTD.
Unified Trademark: KOBELCO
Founding Date: Sep.1, 1905

About KOBELCO Compressors

Kobelco has a long history of compressors manufacturing and technologies since it produced a high pressure reciprocating compressor for the first time in Japan in 1915. It made Japan's first oil-free screw compressor in 1956. In addition, it began to get involved in the production of centrifugal compressor in 1966, thus becoming one of the world's few co mprehensive compressor manufacturers that can produce all piston, screw, centrifugal compressors.

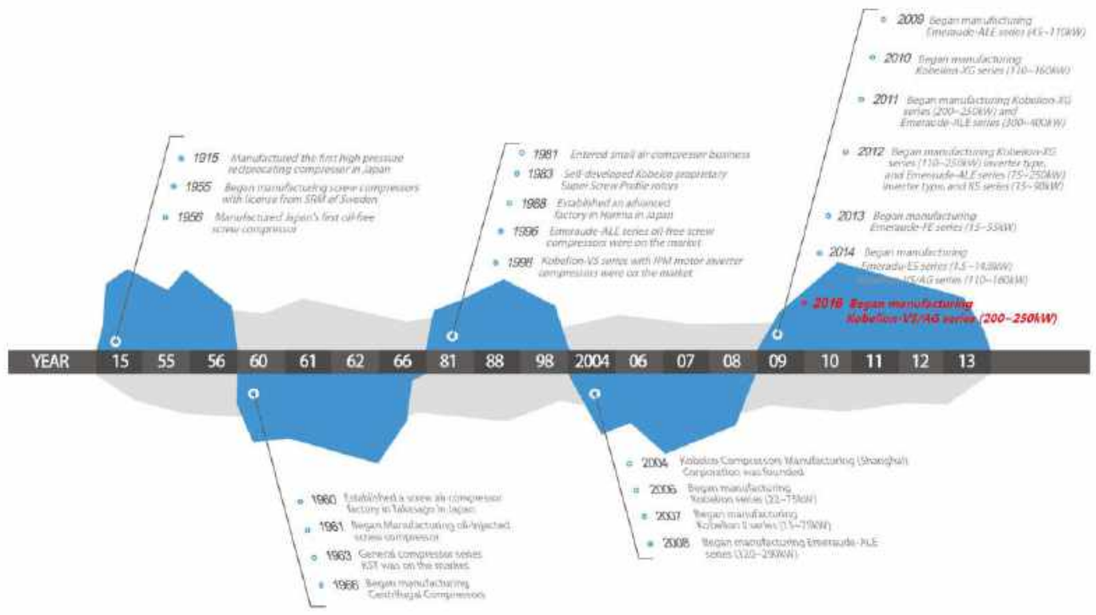
Kobelco, as a material producer, is acquainted with material characteristics and properties, as well as material processing technology. It can develop and produce high efficiency, high performance, high quality products. Its experienced techniques and proven product quality, as well as the eternal pioneer spirit and the pursuit of a more perfect quality make it the industry leader.

Nowadays, Kobelco produces oil-injected and oil-free screw compressors in Japan, US and China and supplys to all over the world.

1915年 Japan's first high pressure compressor
1956年
1966年
1988年
1997年
2004年
2014年 KOBELCON VS/AG

Kobelco factory is certified by ISO9001 Quality management, and ISO14001 Environmental Management.

KOBELCO COMPRESSORS DEVELOPMENT HISTORY



Inherit history and experienced expertise, reach the highest capacity and energy efficiency in the world!

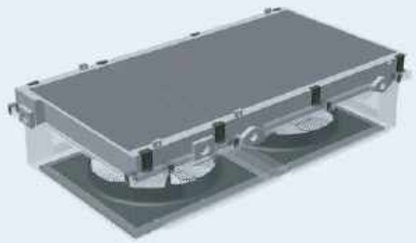
Kobelion series oil flooded screw compressors incorporate Kobelco's half a century's expertise in screw compressor research and manufacture. It takes the highest flow capacity worldwide as the center, and also has both the highest performance and the best quality in the global market.

State-of-the-art Airend from Japan
Energy saving

Kobelion series adopts large diameter screw airends made by Kobelco in Japan, to ensure high quality and performance.

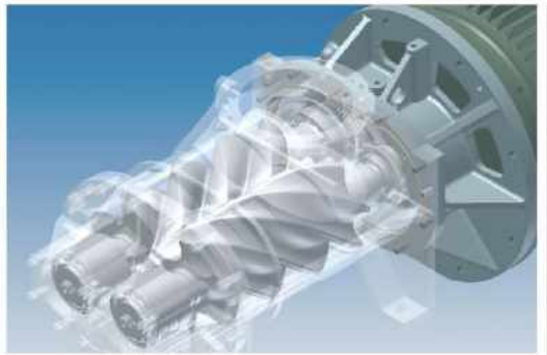
Adapt to harsh ambient temperature
Reliability

It has abundant cooling margin and can run safely even at extreme ambient condition.



Direct airend drive
High performance

Direct gear driven is adopted between airend and motor to reduce energy loss.



High performance controller
Easy to operate

Adopt new touch type liquid crystal display, more easy to operate and time saving. It can coordinate up to 6 units without an additional group controller.

※For VS/AG model only.

KOBELION
SCREW COMPRESSOR

Kobelion is derived from the combination of Kobe Steel Group's trademark "Kobelco" and "Lion".
We select the king of all animals -- the lion, as the series name, because we can provide customers with the newest choices and get their trust.
Proven high reliability isn' t a transient glory, but a permanent value beyond era and nations. It represents various beginnings of the prelude to the ballrooms.

- VS110-250A/W
  AG110-250A/W
  XG3900-4730W(V)
  110-250kW

Proven reliable crystal of technology
We have been innovating ceaselessly to provide you with the optimized compressed air solution since it produced Japan's first high pressure piston compressor in 1915.

High reliability
High efficient inlet/outlet systems to ensure adapting to high ambient temperature.

The highest flow capacity
It adopts big diameter screw airends to offer the highest capacity in the world.

Easy maintenance
Easy for maintaining and long interval period.

High efficiency and energy saving
This series adopts gear transmission without coupling design in order to reduce energy loss.
Kobelco's patent — Energy Saving Logic function.

Low noise
Lower pulsation noise, improve tone quality.

Inverter driving --The Perfect reflection of high performance and energy saving!

KOBELION VS

The combination of the most advanced motor technique and inverter technology reflects excellent reliability and energy saving.

Expertise by many years' experience, and dedicated design!

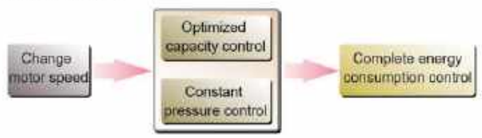
KOBELION AG

AG series incorporate Kobelco's proven screw compressor technology to ensure high efficiency and reliability.

■ Adopt optimizing capacity control and constant pressure control to reduce power consumption

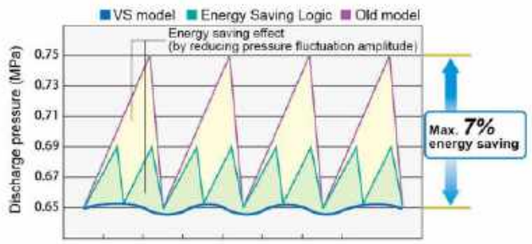
VS inverter adjust rotating speed along with the air consumption to achieve the best energy saving. This inverter can quickly respond to the pressure change so that the pressure fluctuation is minimized within ±0.01MPa and can supply required air by optimized power.

■ Inverter control



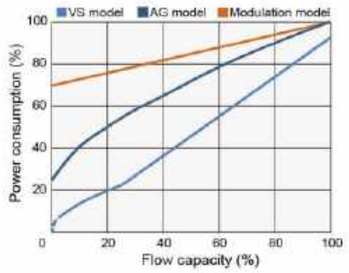
■ Energy saving by constant pressure control

Pressure fluctuation can be controlled within ±0.01MPa.



■ Regulate flow capacity by changing rotating speed

■ Energy saving characteristics



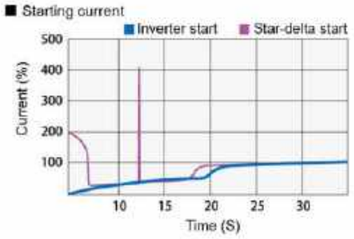
■ Energy saving example (VS110A compare with standard AG110A)

Calculation conditions:
Running 6000 hours/year. Unit price: 0.15 US$/kWh. Average loading rate: 60%.

■ Inverter starter

Reduce starting current and torque to realize steady soft startup, as well as lower electrical devices cost.

■ Starting current



■ Other characteristics

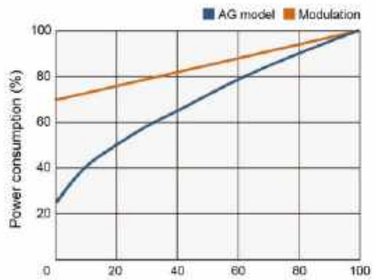
High frequency reactor is a standard configuration to filter out high frequency harmonics produced by inverter.

Forced cooling on inverter prevents trip at high temperature in summer.

Coating on electronic panel can resist dirt and moisture effectively and enduringly.

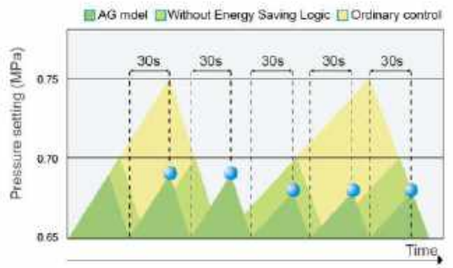
■ Unload regulation reduces energy consumption

AG series adopt unload/load mode which has better energy consumptions efficiency compared to previous modulating mode.
In addition, big unloading valves are treated by special oxidized aluminum membrane. It assures steady air supply and energy saving by loading and unloading.



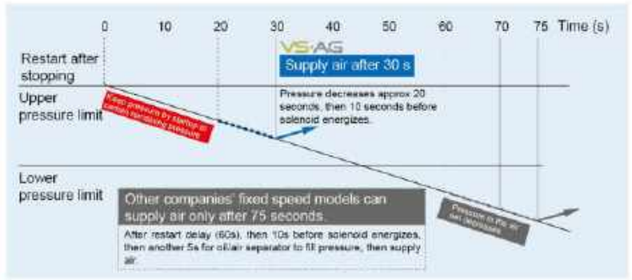
■ Energy Saving Logic Kobelco Patent

It can unload the compressor in advance if unload/load cycle is longer than setting time (30 seconds). Thus lower pressure fluctuation and eliminate energy consumption caused by unnecessary pressure rise.



■ Can start up with certain remaining pressure

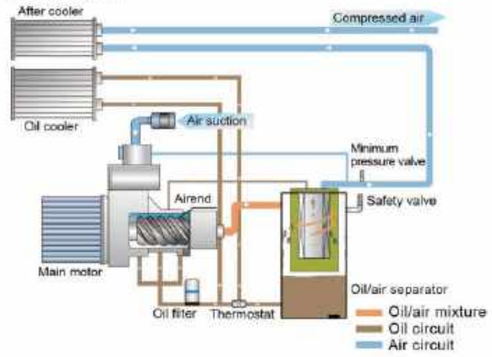
It can supply air at certain remaining pressure.
It is better than other companies' models which require 1 minute starting delay, to avoid pressure drops beneath lower limit.



■ High efficient inlet/outlet systems

Cold/warm cooling air sections and professional air duct design, which consider fully of internal flow pattern and thermal pattern, ensures adaptation to high ambient temperature, as well as reducing noise.
It also considers fully of temperature rises around thermal sensitive parts and controller.

■ Flow diagram



Function Rich Big ITCS Controller

KOBELION VS·AG SCREW COMPRESSOR

The new liquid crystal electronic controller

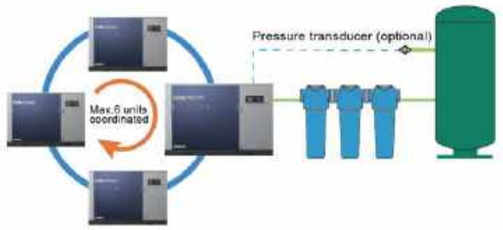
KOBELION VS·AG SCREW COMPRESSOR

■ New functions

- 7 inches big LCD high resolution screen with background lighting
- Multiple units control
- Standard configured MODBUS module
- USB data download function
- Over current protection
- Flow chart display
- 3 pressure settings
- Many password protections

■ Standard configured multiple units control function

Up to 6 units can be coordinated without an additional multiple-units controller, nor is an additional pressure transducer. These compressors can also be group controlled through an additional pressure transducer installed on the air net

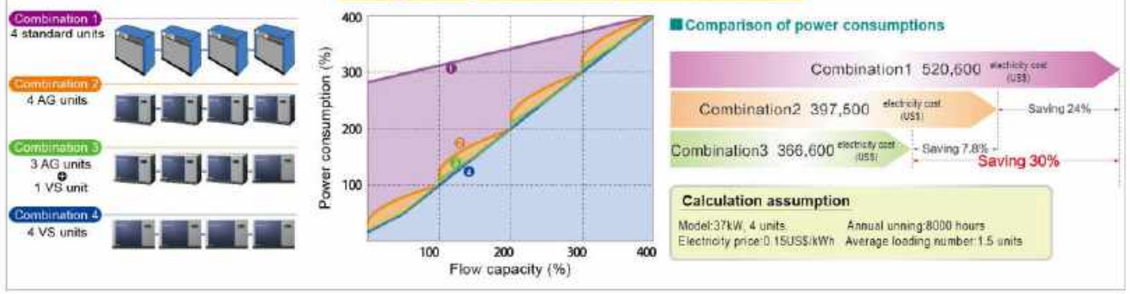


■ Standard configured MODBUS module

MODBUS module is a standard configuration, which can realize Modbus communications that monitor compressors' real time status. It facilitates management and responds to emergencies swiftly.

※Multiple units control function and Modbus function can't be used simultaneously.
If you need the two functions simultaneously, please install another multiple-units controller.
Standard configured multiple units control function is only by local control.

Energy saving effect of multiple units controller

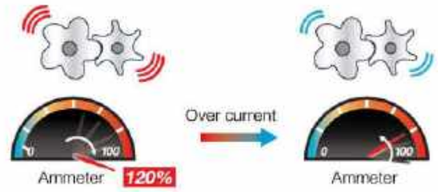


■ Standard configured USB data download function

Detailed running data can be stored. Data before and after an accident can be read. Diagnosed data can be available without installing a measuring instrument.

■ Over current protection

Motor speed will slowdown if inverter detects an over current, in order to continue supply air and prevent emergency shutdown.



※For VS model only.

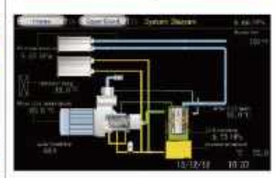
■ Other contents displayed

Home page

Running status

Pressure setting

Flow diagram



Maintenance

Caution

Emergency

Log records

Running status
Many data such as air outlet pressure, pressure in oil separator, loading or unloading, running time, current, inverter consumed current, discharges temperature, temperature of oil separator downstream, ambient temperature, motor coil temperature, air net pressure, etc.

Maintenance
Up to 30 self-diagnose functions, display maintenance/caution/emergency stop signals timely, and corresponding troubleshooting measures. Facilitate daily inspection/maintenance/management, as well as prevent compressor from breaking suddenly to ensure safe production.

Weekly timer
There are at most 7 start/stop combination settings in a week.
Each combination setting can set different pressures.

Running data/charts display
Current data display (every 5 seconds).
Operation data display (each hour of the latest 24 hours).
Display contents: discharge pressure, current, loading rate.

Twin Airends for Energy-saving, High Efficiency And Reliability.

KOBELION XG SCREW COMPRESSOR

You have more choices offered by twin Airends for energy-saving, High efficiency and reliability.

■ Pursue the lowest power consumption

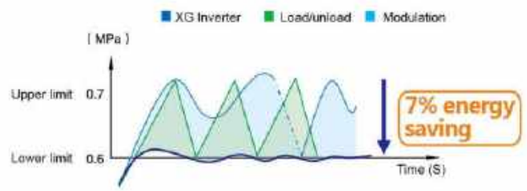
XG inverter adjust rotating speed along with the air consumption to greatly save the energy consumption. This is the most economical mode.

■ Energy saving curves

■ Energy saving by constant pressure control

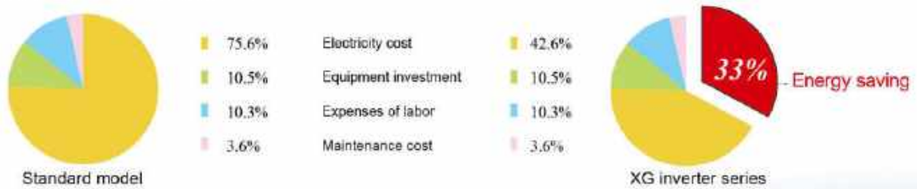
Pressure fluctuation can be controlled within ±0.01MPa by adjusting rotating speed. Reduce energy consumption by unnecessary pressure hikes.

■ Save 7% energy by reducing pressure 0.1MPa



■ Energy saving effect of inverter

The lifetime cost for air compressor is categorized as electricity consumption, maintenance, machine purchase, labor, etc. 86% among them are electricity cost. We can reduce air compressor's lifetime cost by adopting XG inverter series.



■ Other advantages

■ Improve reliability

Inverter's start-up acceleration time can be regulated, in order to reduce moment impact on mechanical parts to improve reliability, and prolong service life.
By the way, inverter can eliminate current surge when startup, to protect electrical devices.

■ Reduce compressor noise

Motor speed slows down in most time, as well as fewer unloading blow-off, effectively decreases noise when compressor is running.

Common features for XG series

■ Twin airends in parallel

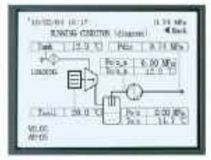
The highest level of flow capacity and efficiency in the world. Slow rotor speeds maximize service life for rotating parts and bearings. Lower noise and pulsation.

■ Coordination of two units

2 units can be coordinated running by simply wiring LCDs. Group controller isn't needed.

■ Real time display of flow diagram

Add flow diagram display to facilitate knowing running status.



■ Condensate monitoring

To prevent from condensation accumulating, discharge temperature is monitored and the monitor alerts if condensed.

■ Self-diagnosis to prevent emergent stop

LCD controller can show various conditions such as maintenance information, caution and emergency stop etc.
It can also display corresponding remedy methods in the LCD controller, to deal with emergent matters promptly.

Maintenance	10 items, recommend services for various parts.
Caution	8 items, request check and repair at once.
Emergency	13 items, display corresponding remedy methods in the LCD controller for dealing promptly.

■ Standard configured Liquid crystal display electronic controller

IP65 protection, high resolution display with LCD background lighting.
Chinese, Japanese, English three languages display.
It not only monitors running status of compressor, but also sets parameters such as discharge pressure, etc.
It can also record operation, display chart, set time weekly, manage daily and weekly information.

Elaborate Design of Details

KOBELION SCREW COMPRESSOR VS·AG·XG

■ High efficient coolers

Oil cooler and after cooler are separated to not only improve efficiency, but also avoid damaging coolers due to different temperatures, so as to prolong their lifetimes.

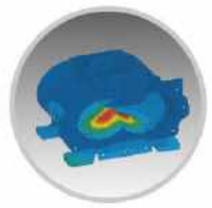
■ TOUGH GREASE

Adopt Kobelco compressors's exclusive TOUGH grease to improve motor efficiency by 2%, as well as ensure more stable running because its long service interval and high temperature endurance.
※For VS/AG model only.

■ High efficient motors

Insulation class F, protection class IP55 total enclosure effectively prevents dust and water from entering motor.
In addition, it is standard configured with Phase Sequence Relay to prevent motor from rotating reversely, in order to protect units.
It also embeds a thermocouple to detect motor coil's temperature to protect motor.

■ Low noise



Adopt advanced new FEM analysis, new designed structure, optimized muffle material, etc. to achieve super low running noise.
Consider fully of sound pressure/sound tone/sound volume by adding insulation boards and air duct etc, to reduce noise that it is the lowest in its category.

■ Draw out water cooler bundles

Internal bundles of oil cooler and after cooler can be drawn out for convenient cleaning and servicing if they are clogged.

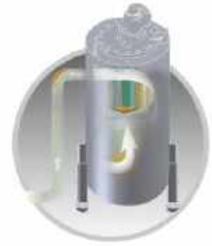
■ Adopt big high efficient air inlet filters

Adopt big air inlet filters to reduce pressure loss and prolong cleaning interval, in order to cope with dusty environment.
Centrifugal + filtration: 2 steps separation.
ISO Fine TD 99.98%.

■ High efficient oil filter

Adopt big oil filter with high separating efficiency to ensure clean oil, as well as prolong oil and related parts' service lifetimes.

■ Oil separator



Reduce remaining oil in the outlet air to less than 2 ppm by 3 steps high efficient oil separation: centrifugal force, gravity, and filtration.

1st step: Centrifugal force
The mixture of compressed air and oil from airend rotates in the oil separator, oil is separated by centrifugal force.

2nd step: Gravity
The oil which is separated by centrifugal force to the inner wall flows down to the bottom by gravity.
There are several magnets at the bottom of the separator to filter out metal scraps in the air stream, in order not to scratch the separating element.

3rd step: Filtration
Adopt big separating elements to suit its flow capacity.
The cylindrical separating element is mainly composed of fiber, to filter out the remaining oil mist.

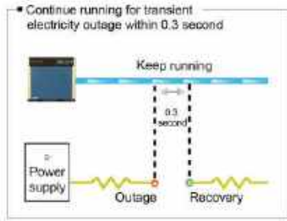
■ Perfect electrical protections

◆ Setting for transient electricity outage...within 0.3 sec.
The compressor doesn' t stop if electricity outage is within the setting time. The compressor will stop only when electricity outage exceeds the setting time. (For AG it is 0.2 sec.)

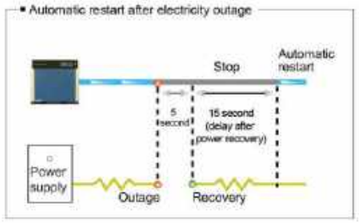
◆ Setting for automatic restart after electricity outage...1~20sec.
(Example as right) Resuming electricity is set at 5 sec, delay setting is 15 sec. after electricity resumes.

◆ Built-in 7,500V surge protector and noise filter.
(XG model is 12,000V)

▪ Continue running for transient electricity outage within 0.3 second



▪ Automatic restart after electricity outage



Specifications

VS/XG Inverter Series

Model	Max. pressure (MPa)	Flow capacity (m³/min)	Main motor power (kW)	Outlet connection diameter	Noise dB(A)	Dimensions (mm)			Weight (kg)
						Length	Width	Height	
VS110A/W	0.75	21.4	110	R3/DN80Flange	69	2,600	1,600	1,850	3,000(2,900)*
VS132A/W		25.4	132	R3/DN80Flange	70	2,600	1,600	1,850	3,250(3,050)
VS160A/W		30.3	160	R3/DN80Flange	71	2,600	1,600	1,850	3,600(3,250)
VS200A/W		37.3	200	R4/DN100Flange	73(72)	3,060	2,120	2,150	4,900(5,000)
VS250A/W		43.4	250	R4/DN100Flange	75(72)	3,060	2,120	2,150	5,300(5,400)
XG3900WV-200		39.0	200	R4/DN100Flange	75	3,060	2,120	2,150	5,240
XG4730WV-250		47.3	250	R4/DN100Flange	75	3,060	2,120	2,150	5,650
VS110A/W-H	0.85	20.2	110	R3/DN80Flange	69	2,600	1,600	1,850	3,000(2,900)
VS132A/W-H		24.1	132	R3/DN80Flange	70	2,600	1,600	1,850	3,250(3,050)
VS160A/W-H		28.8	160	R3/DN80Flange	71	2,600	1,600	1,850	3,600(3,250)
VS200A/W-H		34.2	200	R4/DN100Flange	73(72)	3,060	2,120	2,150	4,900(5,000)
VS250A/W-H		41.4	250	R4/DN100Flange	75(72)	3,060	2,120	2,150	5,300(5,400)
XG3900WV-200H		36.6	200	R4/DN100Flange	75	3,060	2,120	2,150	5,240
XG4730WV-250H		44.1	250	R4/DN100Flange	75	3,060	2,120	2,150	5,650
VS110A/W-GH	1.0	18.6	110	R3/DN80Flange	69	2,600	1,600	1,850	3,000 (2,900)
VS132A/W-GH		21.4	132	R3/DN80Flange	70	2,600	1,600	1,850	3,250 (3,050)
VS160A/W-GH		23.8	160	R3/DN80Flange	71	2,600	1,600	1,850	3,500 (3,150)
VS200A/W-GH		31.1	200	R4/DN100Flange	73(72)	3,060	2,120	2,150	4,900(5,000)
VS250A/W-GH		38.6	250	R4/DN100Flange	75(72)	3,060	2,120	2,150	5,300(5,400)

AG/XG Series

Model	Max. pressure (MPa)	Flow capacity (m³/min)	Main motor power (kW)	Outlet connection diameter	Noise dB(A)	Dimensions (mm)			Weight (kg)
						Length	Width	Height	
AG110A/W	0.75	21.4	110	R3/DN80Flange	69	2,600	1,600	1,850	2,950(2,850)
AG132A/W		25.4	132	R3/DN80Flange	70	2,600	1,600	1,850	3,150(2,950)
AG160A/W		30.3	160	R3/DN80Flange	71	2,600	1,600	1,850	3,500(3,150)
AG200A/W		37.3	200	R4/DN100Flange	73(72)	3,060	2,120	2,150	4,900(5,000)
AG250A/W		43.4	250	R4/DN100Flange	75(72)	3,060	2,120	2,150	5,300(5,400)
XG3900W-200		39.0	200	R4/DN100Flange	75	3,060	2,120	2,150	5,020
XG3900W-200T		39.0	200	R4/DN100Flange	75	3,060	2,120	2,150	6,120
XG4730W-250		47.3	250	R4/DN100Flange	75	3,060	2,120	2,150	5,430
XG4730W-250T		47.3	250	R4/DN100Flange	75	3,060	2,120	2,150	6,320
AG110A/W-H	0.85	20.2	110	R3/DN80Flange	69	2,600	1,600	1,850	2,950(2,850)
AG132A/W-H		24.1	132	R3/DN80Flange	70	2,600	1,600	1,850	3,150(2,950)
AG160A/W-H		28.8	160	R3/DN80Flange	71	2,600	1,600	1,850	3,500(3,150)
AG200A/W-H		34.2	200	R4/DN100Flange	73(72)	3,060	2,120	2,150	4,900(5,000)
AG250A/W-H		41.4	250	R4/DN100Flange	75(72)	3,060	2,120	2,150	5,300(5,400)
XG3900W-200H		36.6	200	R4/DN100Flange	75	3,060	2,120	2,150	5,020
XG3900W-200HT		36.6	200	R4/DN100Flange	75	3,060	2,120	2,150	6,120
XG4730W-250H		44.1	250	R4/DN100Flange	75	3,060	2,120	2,150	5,430
XG4730W-250HT		44.1	250	R4/DN100Flange	75	3,060	2,120	2,150	6,320
AG110A/W-GH	1.0	18.6	110	R3/DN80Flange	69	2,600	1,600	1,850	2,950(2,850)
AG132A/W-GH		21.4	132	R3/DN80Flange	70	2,600	1,600	1,850	3,150(2,950)
AG160A/W-GH		25.8	160	R3/DN80Flange	71	2,600	1,600	1,850	3,500(3,150)
AG200A/W-GH		31.1	200	R4/DN100Flange	73(72)	3,060	2,120	2,150	4,900(5,000)
AG250A/W-GH		38.6	250	R4/DN100Flange	75(72)	3,060	2,120	2,150	5,300(5,400)
XG3900W-200GH		35.3	200	R4/DN100Flange	75	3,060	2,120	2,150	5,020
XG3900W-200GHT		35.3	200	R4/DN100Flange	75	3,060	2,120	2,150	6,120
XG4730W-250GH		40.7	250	R4/DN100Flange	75	3,060	2,120	2,150	5,430
XG4730W-250GHT		40.7	250	R4/DN100Flange	75	3,060	2,120	2,150	6,320

* Water-cooled models' data in ( )
Please refer to "Specification Manual" for the further detail

■ **Notes:**

Power supply: 380V/50Hz/3 phases 3 lines
Discharge air volume is converted into the air inlet conditions. Air inlet conditions: 1 bar, 20℃, 0%.

Provide a full range of services

KOBELCO NET WORK

Kobelco has set up a sales/service network around the world to meet customers' requirement more perfectly. It can provide various services from daily technique support to technology proposals.

Our sales and service staff carefully listen to customers' opinions, and transfer them to technology departments to guide development of Kobelco's compressors. We will ceaselessly strive to provide customers with the most suitable and the highest quality compressors.