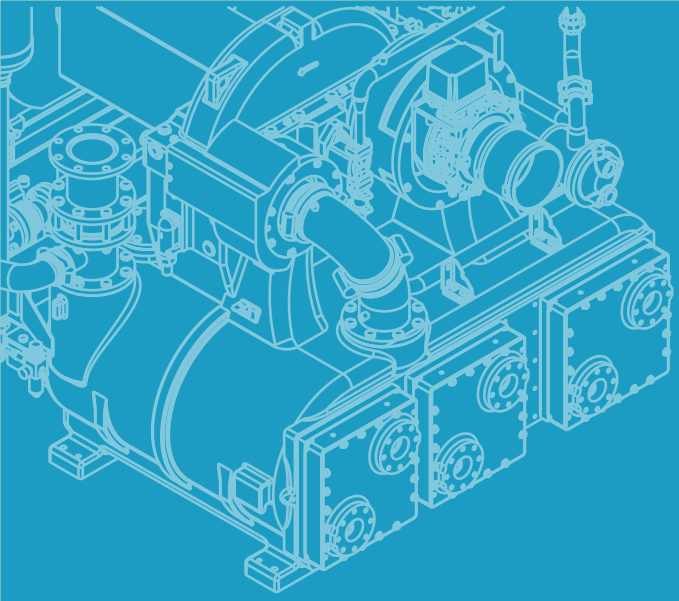
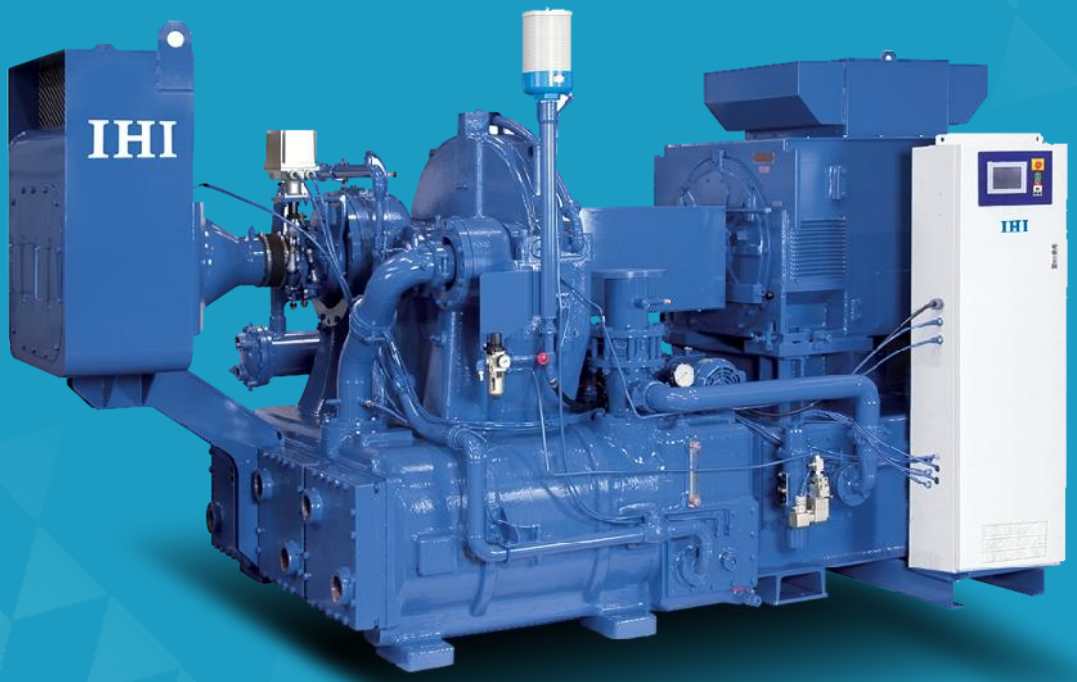
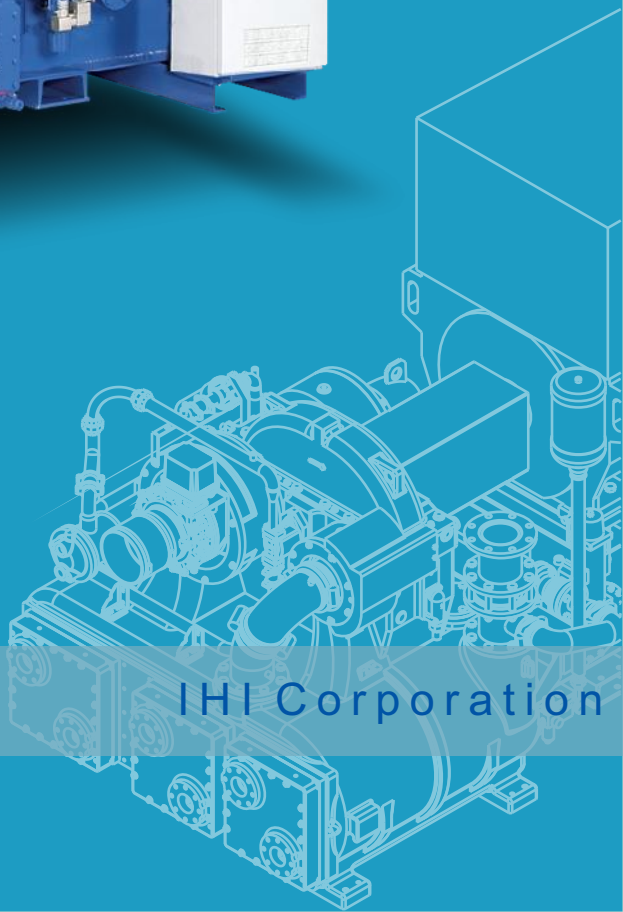


IHI

Realize your dreams





PT. HIKARI CIPTA INDONESIA

IHI Corporation

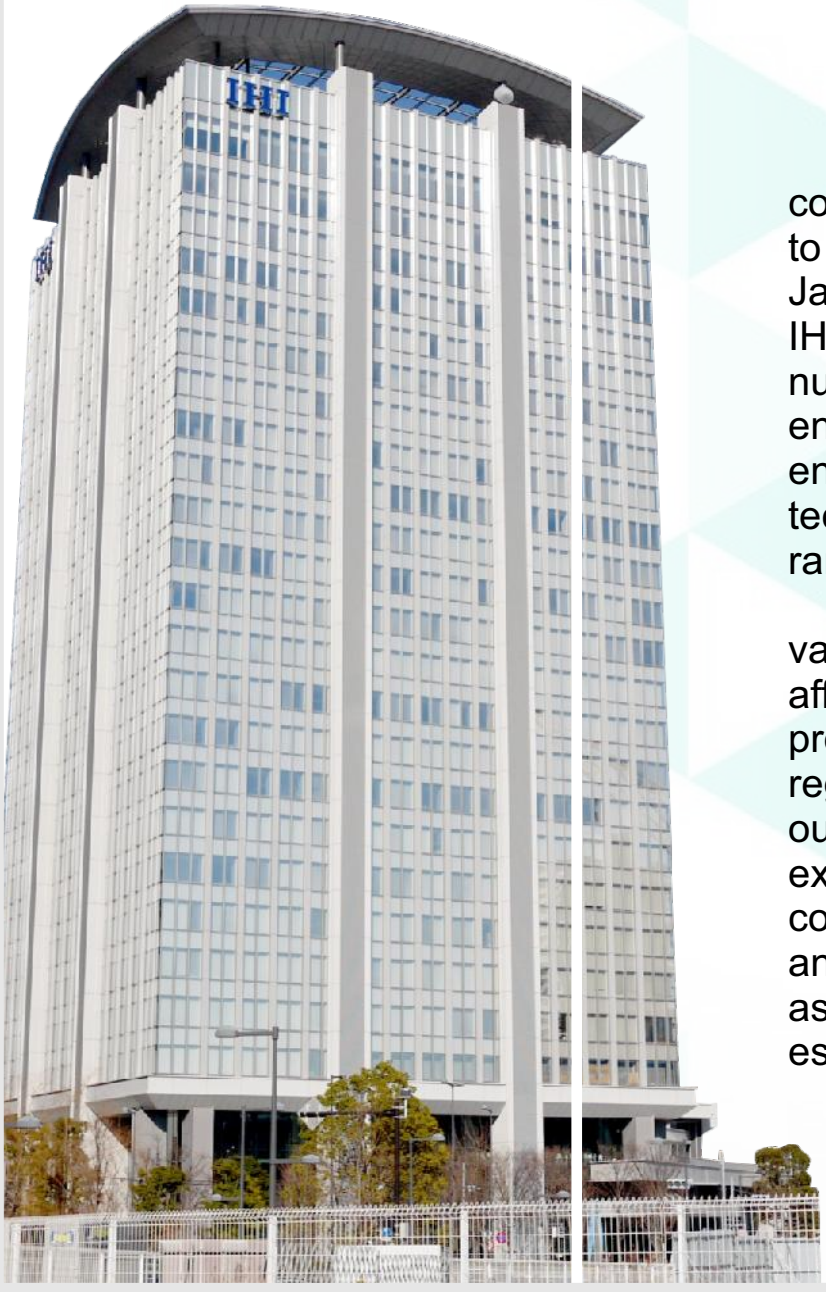
Company Profile

Founded	1853
Capital	¥107.1 billion
Employees (consolidated)	29,706 (as of March 31, 2018)
Works	10
Brances and sales offices in Japan	18
Overseas representative offices	13
Overseas branch	1
Affilated companies in Japan	84 (as of March 31, 2018)
• Subsidiary companies	53
• Associated companies	31
Overseas affilated companies	175 (as of March 31, 2018)
• Subsidiary companies	130
• Associated companies	45
Consolidated net sales	¥1,593,000 million (Year ended March 31, 2018)

Change in sales volume

million yen

March, 2018	15,903,000
March, 2017	14,863,000
March, 2016	15,393,000
March, 2015	14,558,000
March, 2014	1,304,000
March, 2013	1,256,000
March, 2012	1,221,000



Starting out as a shipbuilding company in 1853, IHI has contributed to industrial development as one of Japanese leading companies. Today, IHI is developing its business in a number of fields, including resources, energy, Rotating machinery, aero engine, space, etc, and is putting its technological strength to use in a wide range of industrial fields.

Also, as a global company with a vast network of over 100 overseas affiliate companies, we deliver our products to customers in countries and regions throughout the world. Utilizing our superior technical strength and extensive network, IHI will continue to contribute to industrial development and improved customer value, working as an
essential partner to our customers.

Product Line-up



Space Development
- Rockets
- Rocket propulsion system
- Rocket control system
- Satellite propulsion system
- Satellite control system
- Equipment for utilizatoin of space environments
- Space station related equipment
- Ground test facilities
- Ground support facilities



Jet Engines
- Turbodan engines
- Turboshaft engines
- Turbojet engines
- Turbopop engines
- Jet engine maintenance
- jet engine test cells
- jet engine parts



Energy System
- Boilers for power plants
- Industrial boilers
- fluidized bed combustion boilers
- Waste heat recovery boilers
- Coal gasification combined cycle power facilities
- Components for nuclear power plants
- Radioactive waste management systems
- Diesel engines/ gas engines
- Co generation system
- Fuel cells



Storage Plants & Process Plants
- Storage plants
- Oil and gas processing plants
- Chemical plants
- Seawater desalination plants
- Pharmaceutical plants
- Cement plants
- Ultrafine griding mills
- Chemical plant equipment
- Cooling towers



Environmental Preservantion & Disaster
- Solid waste treatment systems
- Zero emission facilities
- Air pollution prevention systems
- Wastewater treatment systems
- Noise reduction systems
- Seismic isolation floors
- Mass damper systems
- Pollution prevention ships
- Environmental simulation facilities



Material Handling System
- Ontainer cranes
- Unloaders
- Stackers
- Reclaimers
- Electric overhead traveling cranes
- Jib cranes
- Floating cranes
- Conveyors



Physical Distribution Systems
- Clean automated material handling system
- Automated warehousing systems
- Storage systems
- Conveyor transfer systems
- Sorting systems



Traffic & Parking systems
- Automated poeple mover systems
- Parking systems
- Rolling stocks
- Snow plows



Bridges & Steel Structures
- Bridge
- Gates for river and coasts
- Hangar dock system
- Boarding bridges
- Floating breakwaters
- Floating bridges
- Skew plate brekwaters
- Immersed tunnels
- Hybrid caissons
- Steel structures for buildings



Construction Machinery
- Shield tuneling machines
- Automatic segment assembling system
- Jib climbing cranes
- Excavators
- materials handling system
- Cranes
- Concrete machines
- Street sweepers



Industrial Machinery
- Rolling millls
- Industrial furnaces
- Pulp and paper production plants
- Presses
- New materials manufacturing facilities
- Rubber/ plastic forming machines
- Vacuum heat treatment facilities
- Compressors
- Stepping cylinders
- Semiconductor and LCD panel equipment
- R&D facilities



Standard Machinery
- Turbochargers (for cehicles and ships)
- Superchargers
- Centrifuges
- Filters
- Dewatering equipment
- Compressors
- Lubricating system
- Packaged boiler
- Hoists



Facilities & Products for Civil Use
- Pedestrian bridges
- Moving walkways
- Ozone deodorizers
- Dishwasher
- Agricultural machinery
- Lawn maintenance machinery
- Disaster prevention equipment
- Refuse compactor
- High temperature heating systems

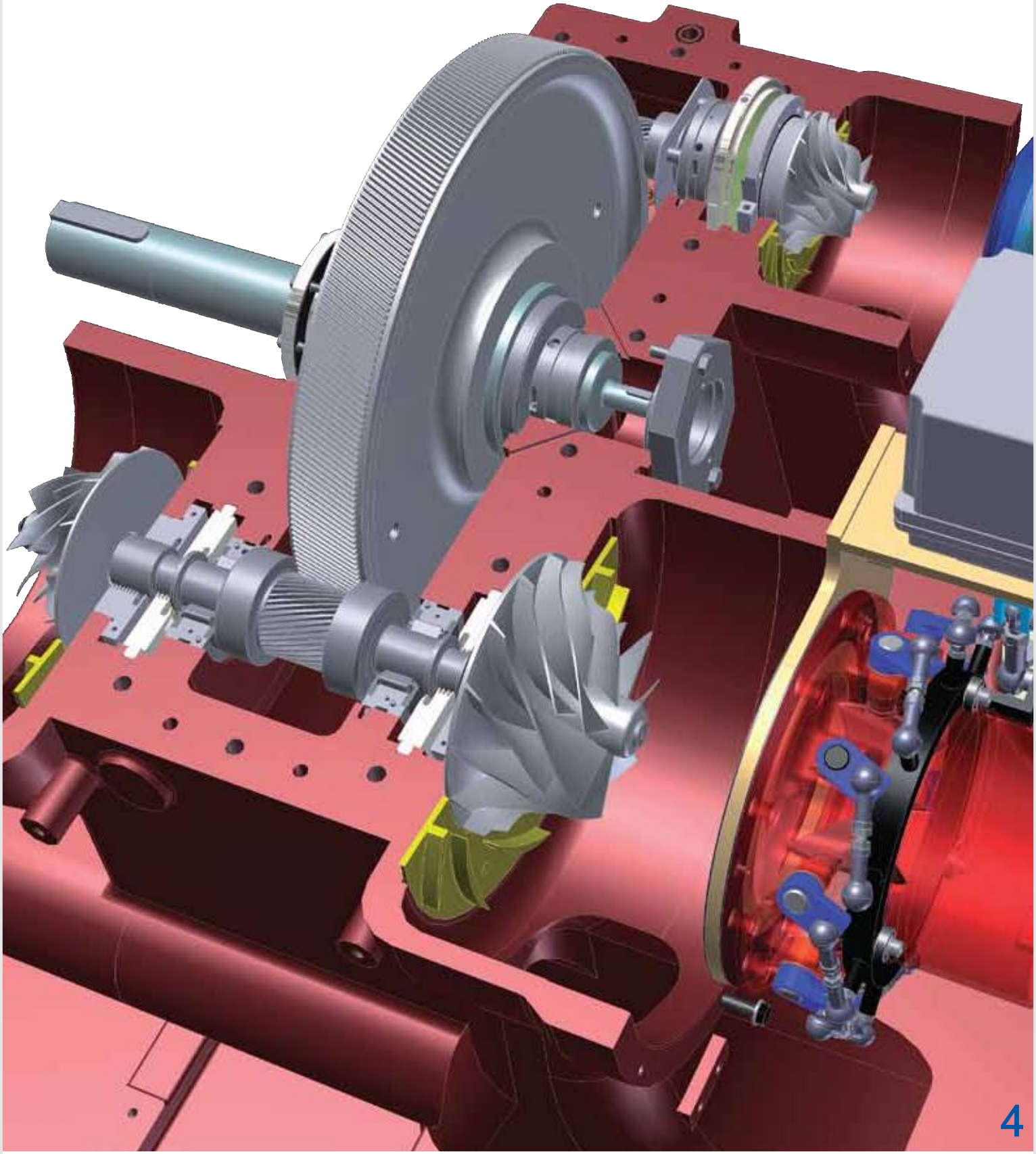


Security Related Technology
- Laser radar
- Monitoring equipment
- Surveillance equipment
- X ray inspection equipment



Ships & Offshore Facilities
- Oil tankers
- LNG/ LPG carries
- Container ships
- Bulk carries
- Passenger ships & ferries
- Naval vessels & coast guard ships
- Work vessels
- Offshore development equipment
- Marine engines
- Deck cranes
- Deck machinery
- Propulsion units

Simple & Reliable





Titanium Impellers

The three dimensional impeller, designed by making the fullest use of IHI's extensive experience and cutting edge CFD technology, enables world top class efficiency and a wide operating range. The use of titanium (except TRX*) means there is no need to worry about wear or corrosion.



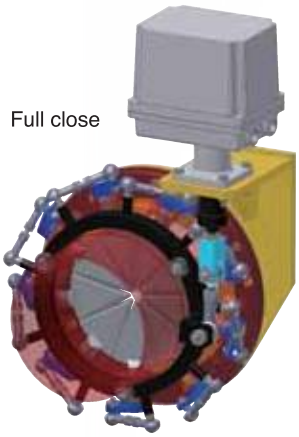


Diffusers

The velocity energy imparted to air by the rotation of the impeller is efficiently converted into pressure energy by the diffuser. Because the impeller and diffuser are analysed together using cutting edge CFD technology, air turbulence is kept to an absolute minimum, and operating noise is extremely low.



Full close



Inlet guide vane (IGV)

With the inlet guide vane (inlet throttle valve), air supply can be controlled in accordance with consumption. Further, the inlet guide vane enhances efficiency by providing preswirl flow to the air taken into the compressor in the same rotative direction as the impeller

*Except for Tx-M Model

Full open





Tilting pad journal bearing

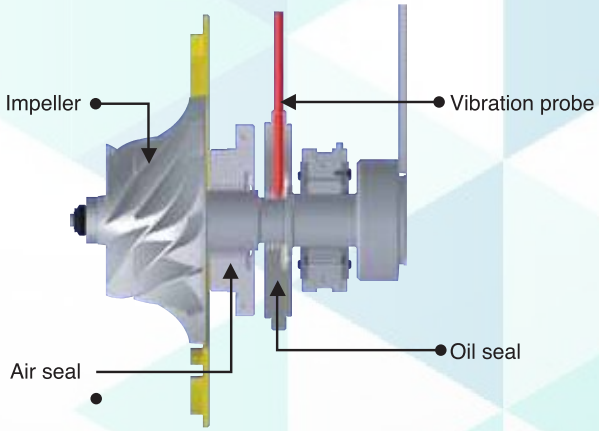
Tilting pad journal bearings, which realize high-speed and stable operation, are adopted. Pad tilt will change in accordance with bearing load changes, which provides excellent compliance with load changes in the compressor.



Labyrinth seal

For the air seal and oil seal, the labyrinth type, which has no contact with the shaft, is adopted, so there is no wear resulting from operation and no periodic replacement is required.

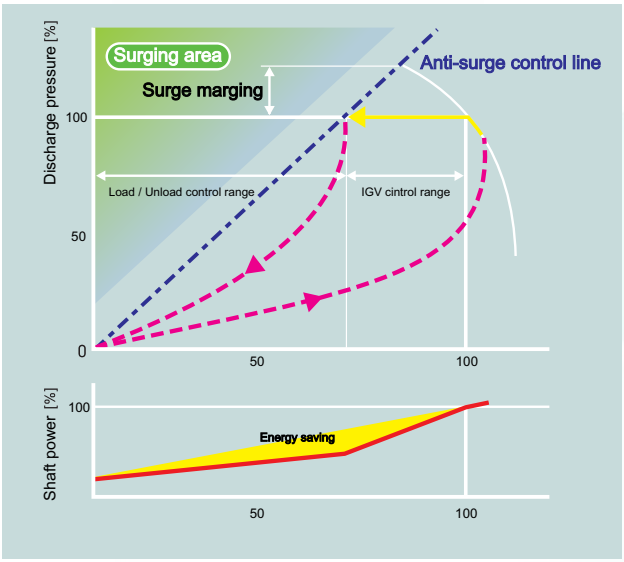
* High Strength Stainless Steel is used for TRX.



Capacity Control Methods

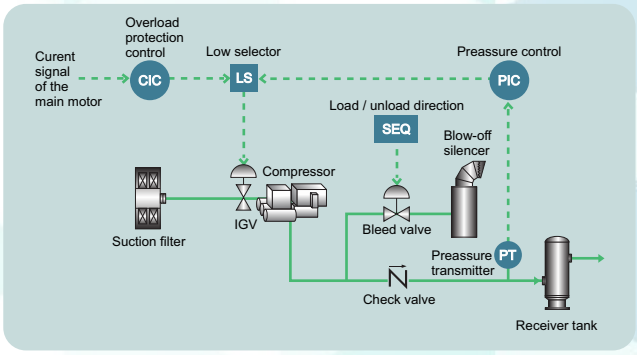
1 Constant pressure + Load/Unload control

A dual control system created by combining advantages of "constant-pressure control" and "load / unload control". Energy saving operation has been realized with efficient compressor control at each operation point.



- IGV control range (constant-pressure control range)
Discharge air flow is adjustable by IGV Opening/Closing. IGV iscontrolled to keep discharge line pressure constant.

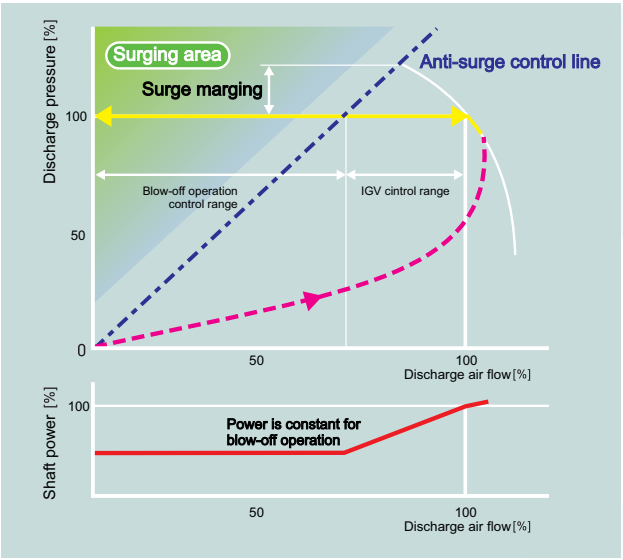
- Load / Unload control range
When consumption of air flow decreased, compressor turns into Unload operation automatically. And next, when discharge line pressure decreased, compressor comes back to Load operation automatically.



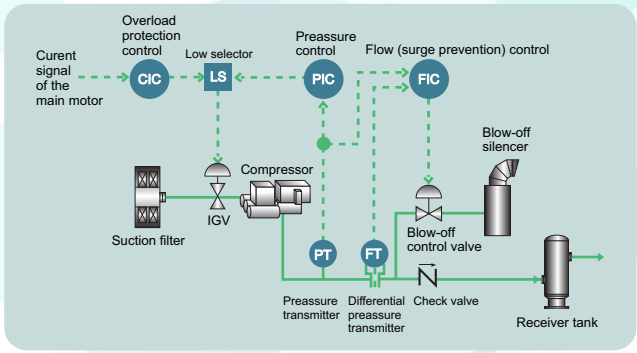
IGV is controlled according to an amount of plant air consumption. In this case, discharge pressure is kept constant and operation condition of compressor is kept stable too.

2 Constant pressure + Anti-surge control

Even if consumption of air would change between 0% to 100%, compressor keeps stable condition at a constant pressure.



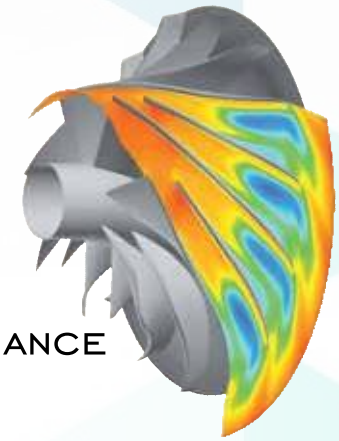
When air consumption become lower than the throttling range of IGV, discharge pressure is kept by controlling of blow off control valve.



Value in Use

User Customization

Energy-saving Easy Maintenance



Optimal impeller design

Optimal impeller design, matching the required airflow and pressure, contributes to energy saving.



Various Options

To meet the needs of individual customers, we offer a variety of options, such as enclosures and Group control





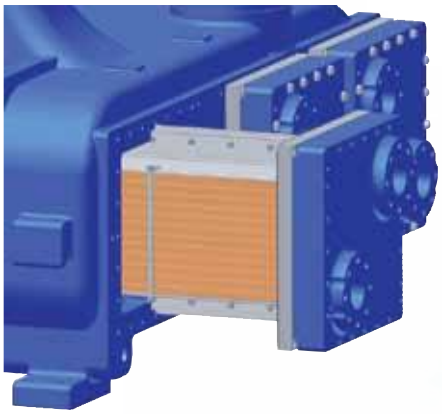
Impeller

The impeller is made from titanium and stainless steel, which are very resistant to corrosion and wear. Because there is no need for periodic replacement, maintenance costs can be kept low.



Tilting pad journal bearing

Tilting pad journal bearings are
used for the bearings of the high speed rotation impeller. Since this is a non-contact bearing, there is no wear, and the life of the part is semi-permanent.

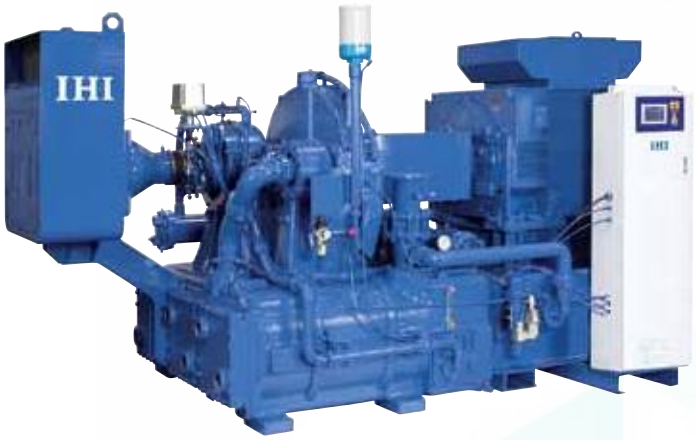


Air coolers (inter coolers, after coolers)

To ensure the stable operation of the compressor, the coolers need to be cleaned periodically. The air coolers mounted on IHI turbo compressors are designed to allow water to flow along the pipes, and their construction makes cleaning very easy.



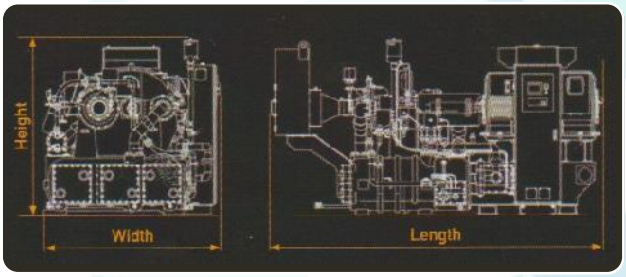
IHI Turbo Compressor Line-up

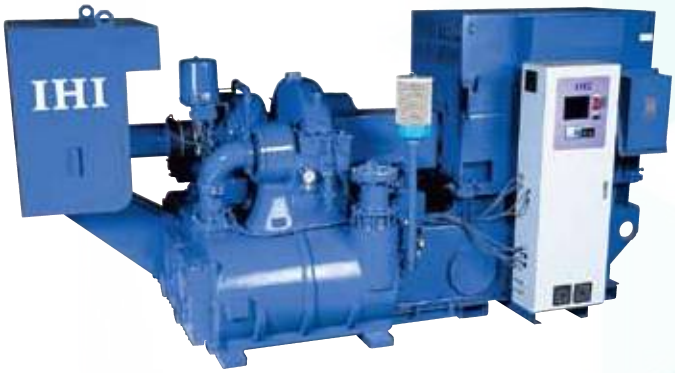


TRA Compression stage: 3 stages (Discharge Pressure: 0.69MPaG)

Model	Motor (kW)	Flow Rate (m /h)	Dimensions (mm)			Weight (kg)
			Length	Width	Height	
TRA 20	250	2,470	3,700	2,000	2,000	7,100
TRA 40	450	4,940	4,000		2,200	8,500

■TRA schematic

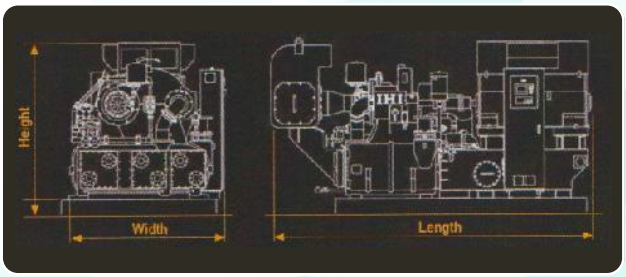




TRE Compression stage: 3 stages (Discharge Pressure: 0.69MPaG)

Model	Motor (kW)	Flow Rate (m /h)	Dimensions (mm)			Weight (kg)
			Length	Width	Height	
TRE 30	375	3,600	4,100	1,950	2,000	8,300
TRE 90E	950	10,550	5,200	5,200	2,800	13,500

■TRE schematic





TRX Compression stage: 3 stages (Discharge Pressure: 0.69MPaG)

Model	Motor (kW)	Flow Rate (m /h)	Dimensions (mm)			Weight (kg)
			Length	Width	Height	
TRX 90	900	9,500	4,800	2,100	2,150	13,500
TRX 180	1,800	20,000	6,000	2,300	3,300	20,000

IHI Turbo Compressor Line-up

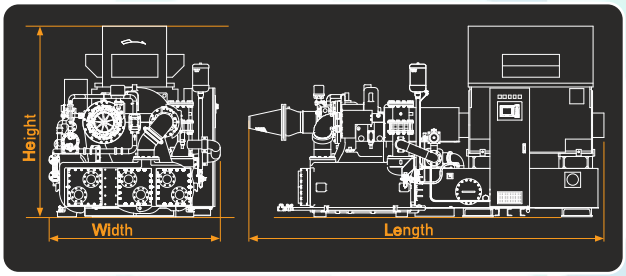


T3 Compression stage: 3 stages

(Discharge Pressure: 0.69MPaG)

Model	Motor (kW)	Flow Rate (m /h)	Dimensions (mm)			Weight (kg)
			Length	Width	Height	
T3A 70	750	8,200	4,600	2,250	2,000	10,000
I	I	I	I	I	I	I
T3A 130	1,320	13,800	5,700	2,500	3,000	16,000

■T3 schematic



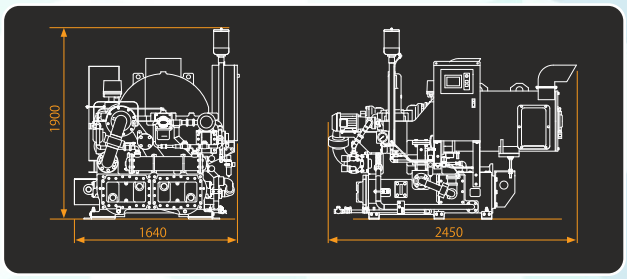


T2 Compression stage: 2 stages

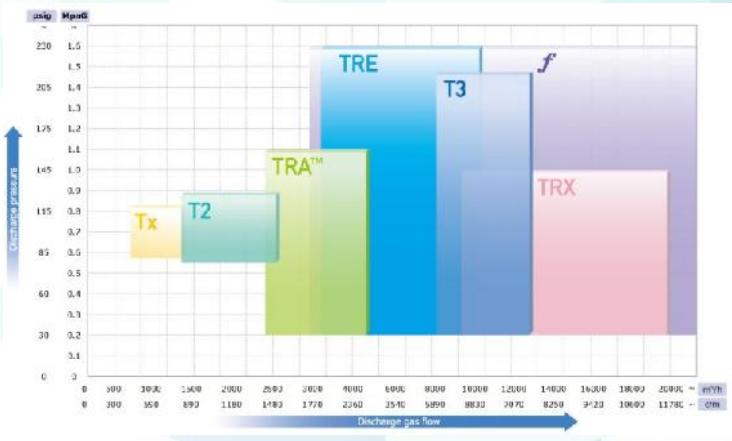
(Discharge Pressure: 0.69MPaG)

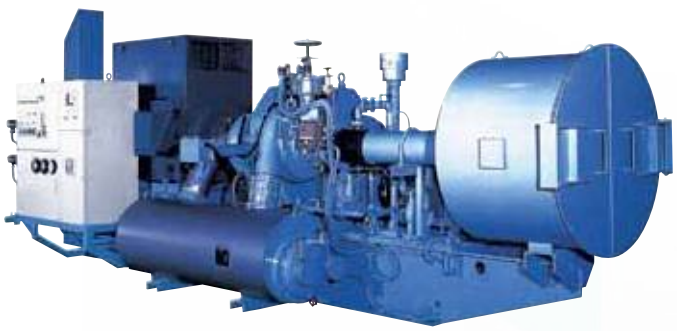
Model	Motor (kW)	Flow Rate (m /h)	Dimensions (mm)			Weight (kg)
			Length	Width	Height	
T2A	125 I 230	1,394 I 2,648	2,450	1,640	1,900	4,500

■T2 schematic



NOTES
1. The above tables display flow rate ranges at typical discharge pressures.
2. Flow rate (m^3/hr) is converted to compressor suction conditions as indicated below.
3. Reference conditions:-Atmospheric pressure: 0.1013MPa(abs.)
   -Suction pressure: 0.0993MPa(abs.)
   -Suction temperature: 35°C
   -Relative humidity: 80%
   -Cooling water inlet temperature: 32°C
4. Flow rate is meassured at inlet point.





f series Compression stage: 3 stages

(Discharge Pressure: 0.69MPaG)

Model	Motor (kW)	Flow Rate (m /h)	Dimensions (mm)			Weight (kg)
			Length	Width	Height	
f 25	350	3,300	6,100	2,300	2,800	10,000
I	I	I	I	I	I	I
f 36	1,700	18,500	9,100	3,100	3,700	26,500

Company Profile

PT. Hikari Cipta Indonesia was estabilished in mid-2005 which located in Ruko Roxy Blok. B No. 9 Lippo Cikarang-Bekasi is a official Sales Distributor and After-Sales Servicing of IHI Compressor.

Mainly runs the business of compressor system equipment and supplying of the spare parts. we supply to our customer with the selection, supply , installation, test, etc full range services of screw air compressor, piston air compressor, and centrifugal air compressor and technical air compressor, air dryer, filter air, receiver, and their spare part etc.

In order to adapt the market and satisfy the company needs, we have established teams of profesional sales and services after sales. We promise the maintenance date of equipment, spare parts, and consumables whenever customer buy from us. We offer customer the best solution won't let our product affect your normal manufacturing. Customer's satisfaction is our working purpose; Customer's trust is our working power.

We run especially in IHI Compressor and Orion Dryer and w also run many famous japan's and franc brands.

Basic Information

Company Name	: **PT HIKARI CIPTA INDONESIA**
Office	: Ruko Arcadia Mataram Blok B No 3 Lippo Cikarang Bekasi 17550 Indonesia
Telephone	: (021) 8990 8314, 8990 3629
Fax	: 021-8990771
E-mail	: hci@hikaricipta.co.id
Established	: July, 2005
Business Type	: Compressed Air System Intergrator
Business Line	: Air Compressor, Air Dryer, Air Filter, Air Receiver Tank and N2 Generator
Service Capability	: General Maintenance, Retrofit & Energy Saving Imporvement

PT. HIKARI CIPTA INDONESIA

IHI Authorized Distributer & Service Provider



T2A Type



TX-A Type



TRA Type



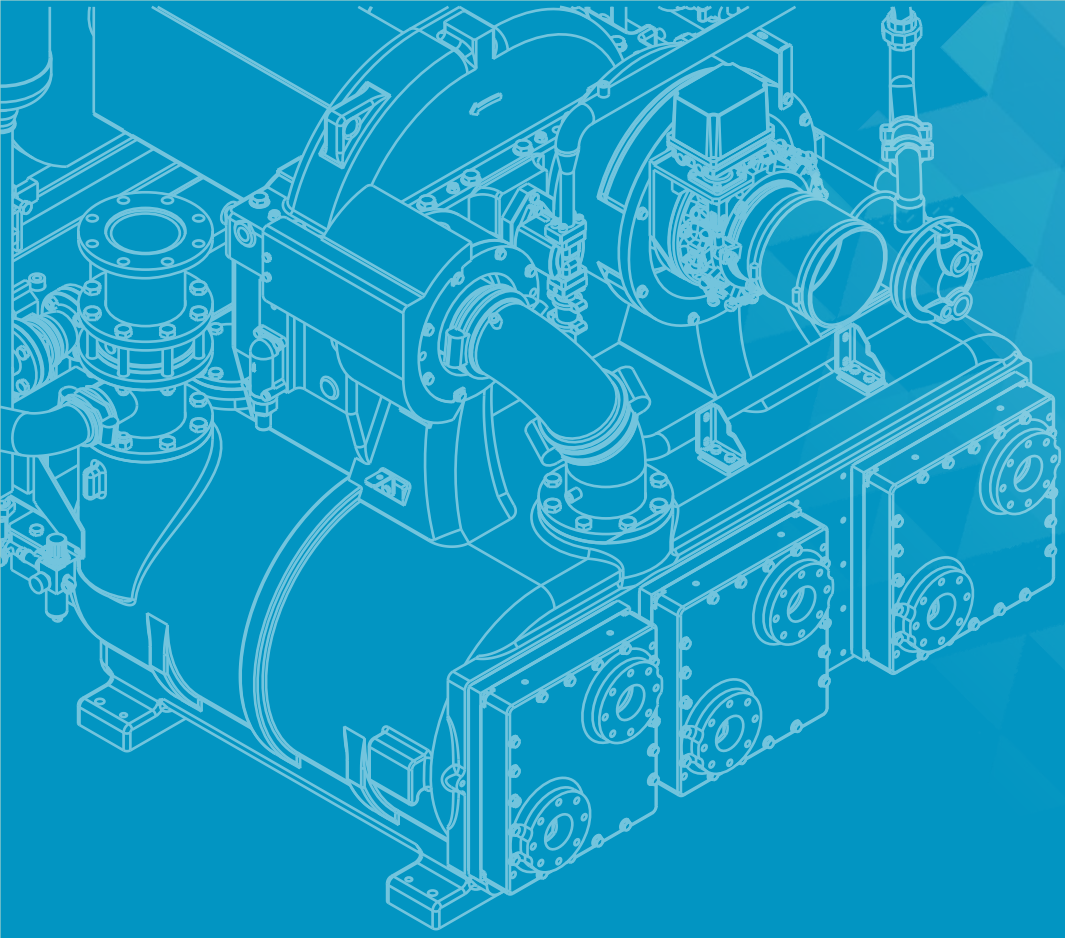
TRE Type

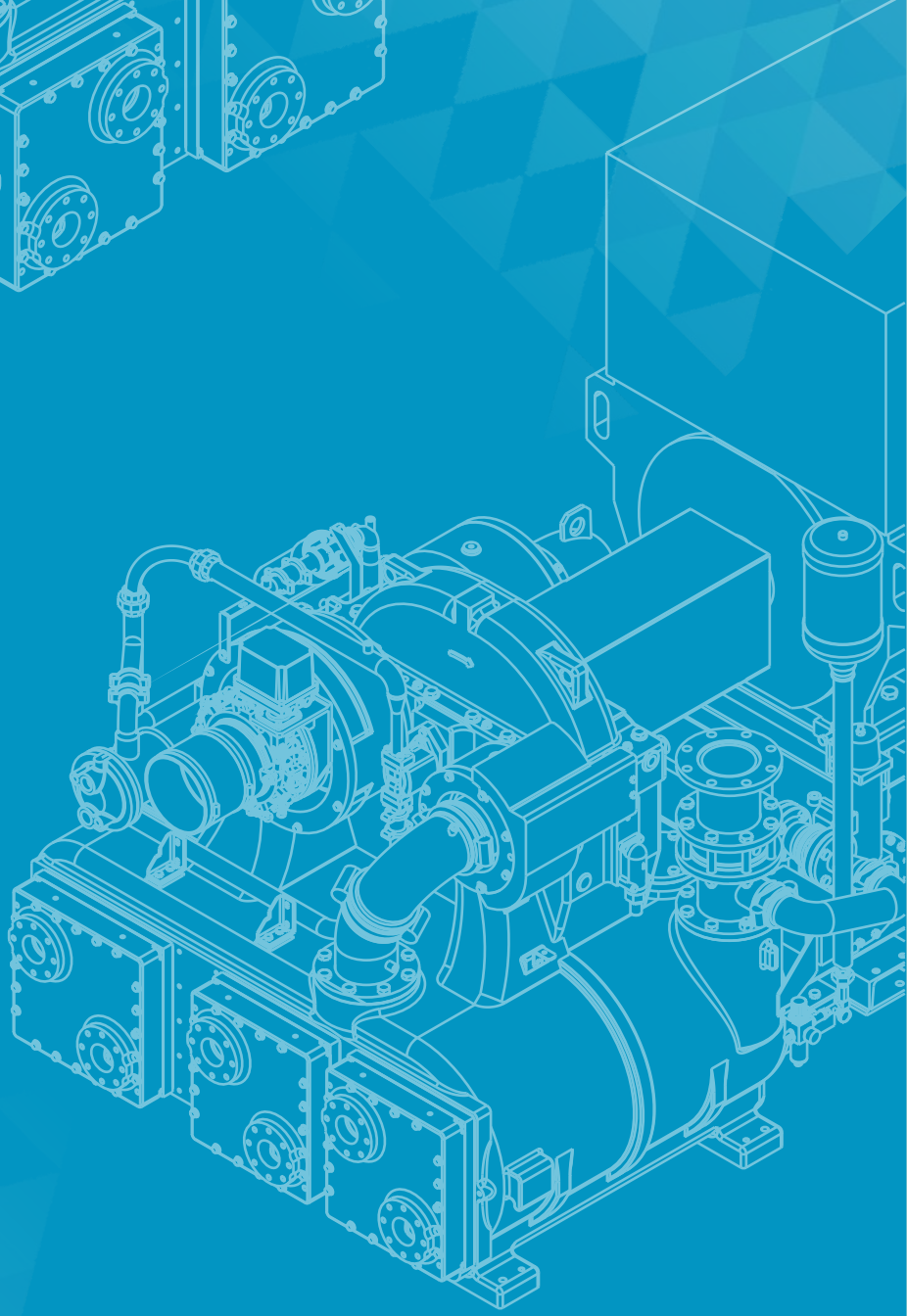


T3A Type



TA Type





PT. HIKARI CIPTA INDONESIA

IHI Authorized Distributer & Service Provider

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E-mail : hci@hikaricipta.co.id