

PRODUCT CATALOGUE

**WE DEVELOP,
MANUFACTURE AND
PROVIDE HIGH QUALITY
INDUSTRIAL PUMPS TO
SATISFY CUSTOMER
REQUIREMENT IN INDUSTRY
FOR DOMESTIC AND
INTERNATIONAL MARKET**

FOUNDRY

MANUFACTURING

**PERFORMANCE
TEST**



WORLD CLASS INDUSTRIAL PUMP

In the industries known for its demand of excellent services, PT Torishima Guna Indonesia holds great pride of being widely acknowledge as the reliable pump manufacturer. As a learning organization, our capabilities are strengthened with corporate culture in continuous improvement and a commitment to excellence.

Our solutions are engineered in response to the challenge of the industry. By using state-of-the-art manufacturing facilities, PT Torishima Guna Indonesia is capable of producing world-class industrial pump product ranges including End Suction, Multi-Stage High Pressure, Double Suction and Vertical Mixed Flow Pumps.

With manufacturing depth starting from our own group casting process until finish pump, we have the total control over product quality.

PT Torishima Guna Indonesia has established strong sales and distribution network by building dealerships and other sales channels, which in turn can serve all our customers needs. PT Torishima Guna Indonesia is currently distributing both standard and tailor-made industrial pumps not only in the Indonesian market but also throughout the South East Asia Region.

In compliance with Torishima's policy, we provide international warranty service that is provided for every product.

PT Torishima Guna Indonesia is the only local company which provide various kinds of the best quality local pumps, internaionally and having TKDN certificates.

We realize that the cornerstone of our success lies in our total dedication to ensuring our customers' satisfaction. We are confident that, in an ever-changing environment, our flexibility in service approach, customer focus policy, extensive knowledge of the industry and dependability at all time will continue to position PT Torishima Guna Indonesia as the industry's preferred business partner in pumps solution.



Kementerian
Perindustrian
REPUBLIK INDONESIA
TKDN

bki



REGISTERED

ISO 9001:2015

CERTIFICATE NUMBER : GEC21852

ISO 45001:2018

CERTIFICATE NUMBER : HSM40089

ISO 14001:2015

CERTIFICATE NUMBER : CEM20280





Pump Test Capacity	up to 7.200 m ³ / hr
Pressure	up to 200 bar (3.000 psi)
Electricity	up to 1250 kVA
Control System	Computerize
Hydrostatic	pressure up to 700 bar (10.000 psi) (Chart recorder available)
Dynamic Bataricing Test	3kg/cm2 (Gland Seal Type)

Low Voltage Inverter to 500kW

- a. Volatge 380 - 415 Volt
- b. Frequency 0.2 - 120 Hz

Medium Voltage Inverter up to 1MW

- a. Voltage 3,3 and 6,6 Volt
- b. Frequency 0.2 - 120 Hz

APPLICATION

Pump Type	: End Suction, Horizontal Split Case, Multistage, Vertical Suspended, Submersible, Positive displacement.
Pump Size	: High Pressure, Big Capacity up to 200 bars, 15000 m3/hr and 1 MW.
Pumped Media	: Water with ambient temperature and elevated temperature ; for oil or process fluid, the testing with water is converted.
Power Supply	: Low Voltage and Medium Voltage up to 6600 Volt from PLN.
Pump Speed	: At rated speed and reduced speed ; rated speed up to 1 MW input power and reduced speed for bigger pump driver than 1 MW.
NPSH Test	: With closed loop type piping system for the end suction, small to medium size split case and multistage pumps.

EQUIPMENT FOR PUMP TESTING

Piping	: 1 inch (DN25mm) up to 32 inch (DN800mm), pressure up to 200 bars (3000 psi) for high pressure piping up to 8 inch (Dn200mm).
Valve	: Butterfly and globe valve 1 inch up to 32 inch ; manual and motorized control.
Flow Meter	: Ultra Magnetic Flow Meter & Ultrasonic type.
Control Panel System	: Centralized operation from control desk : Variable Frequency Drive, Low Voltage (up to 500kW) and Medium Voltage (up to 1 MW).
Intrumentation	: Temperature , Suction & Discharge Pressure , Water level .
Water Reservoir	: 200 m3 water pond separated by water gate for suction water level control.
Water Tank	: Stainless steel pressure tank for close loop system test & NPSH test.
Pump Priming	: Vacuum pump.
Bottom Base	: Fine machined cast iron.
Test Motor	: Up to 500 kW ; for bigger pump use job motor.
Measurement Tools	: Vibration probe & analyser, temperature gun & sensor, sound test, digital tachometer.
Over Head Crane	: up to 10 tons

PUMP TEST LINES

We have 6 lines testing facility (4 closed loop and 2 open loop system)

PUMP TEST WITH ENGINES

Diesel Engines : Customized piping system for diesel engine pump testing, available up on request

CERTIFICATES

SAI GLOBAL CERTIFICATES

As company which prioritized products and service quality, PT Torishima Guna Indonesia successfully obtained certificates for ISO 9001:2015, ISO 14001:2015, and ISO 45001:2018.



BKI CERTIFICATES

As a domestic that participated in the development of marine industry, especially in the field of shipping in Indonesia. PT Torishima Guna Indonesia has been certified by PT Biro Klasifikasi Indonesia for End Suction pump which is used on ship certified by BKI.



LOCAL CONTENT CERTIFICATES

PT Torishima Guna Indonesia is the only local company provide various kinds of the best quality local pumps, internationally standardized and having TKDN Certificate. PT Torishima Guna Indonesia also have integrated service starting from installation, commissioning to after sales.



APPLICATION



Marine Industry

- Ballast
- Sea Water Cooling
- Cargo Oil
- Tank Cleaning
- SW / FW Hydrophore
- Boiler Feed / Circulation
- Sewage
- Dock Main / Dock Daily



Energy Industry

- Hydro Electric Power Generation
- Steam Power Generation
- Combined Cycle Power Generation
- Oil Storage & Distribution



Chemical Industry

- Petro-Chemical
- Inorganic Chemical
- Chemical Fertilizer
- Medicines & Cosmetics Industry
- Oil Refinery



WORLD CLASS INDUSTRIAL PUMP

Water Works & Environment

- Facilities of water works, industrial water works, and small scale water works including cooling water supply and distribution for industrial complex
- Municipal water supply
- Agricultural irrigation, sprinkling drainage
- Recreational park
- Water utilization, neighboring water : development of water resources, purification of river
- Flood control
- Environment preservation facilities



Construction & Utility Industry

- Intelligent buildings, covers AC, water supply & drainage, and sanitation
- District heating & cooling system including boiler feed, hot water, and cooling water
- Airport and harbor facilities, covering sewage treatment, water supply and drainage
- Water treatment systems
- Waste water treatment systems
- Sea water desalination
- Fire pump systems



Oil & Gas and General Industry

- Oil & Gas and General Industry
- Steel, non-ferrous metal, new materials
- Automotive, machinery & ceramics industries
- Pulp and paper industries
- Ship building industries
- Fiber industries
- Food & beverage industries
- Sugar mill & refinery industry
- Palm oil mill industries
- Oil & Gas Industries



Torishima
innovation is ready
to satisfy all the
market needs.

Torishima reputation for providing reliable mixed flow pumps to operate in critical processes throughout a wide range of industries is second to none. With several thousand pump operating world wide you can count on Torishima pumps to be the driving force behind your pumping requirements.

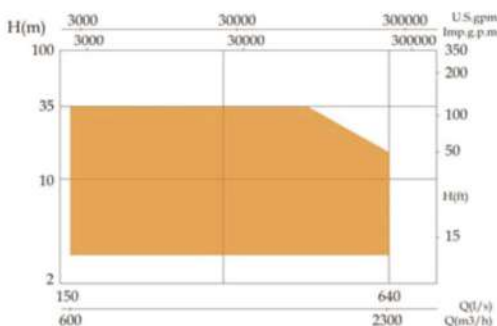
MATERIALS

Discharge Bend & Rising Man	Cast Iron, Carbon Steel, Stainless Steel
Pumps Diffuser Casing & Impellers	Cast iron, Ductile iron, Bronze, Aluminium Bronze Stainless steel
Shaft	Carbon steel, Stainless steel



TECHNICAL DATA

Total Heads	up to 35 m
Capacity	up to 2.300 m ³ /hr
Size	200 to 500 mm
Temperature	up to 80°C



APPLICATION



Power :

Cooling Water
Condensate Pumps
Geothermal Brine Pumps

Petrochemical :

Seawater Intake
Cooling Intake
Pipeline Transfer

Desalination :

Seawater Intake
Brine Recirculation/blowdown
Destillate

Industrial :

Cooling Water
Condensate Pumps
Geothermal Brine Pumps

Drainage Application Water & Wastewater :

River Water Intake
Water Transfer
Sludge Transfer



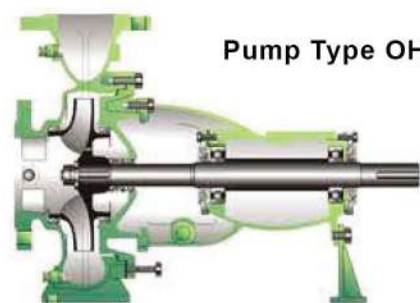
THE TORISHIMA CA SERIES “ECO PUMPS” LEAD THE WORLD

End-Suction Volute Pump (10 bar & 16 bar type)

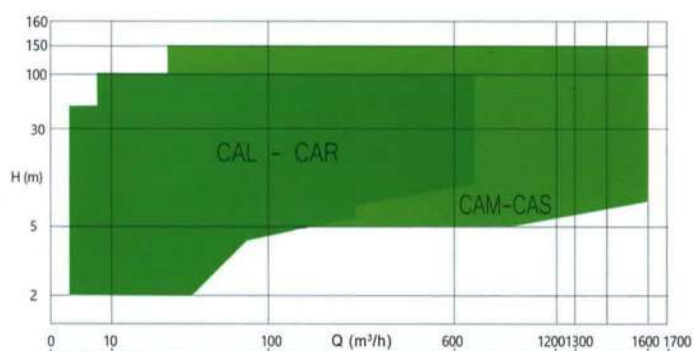
CAL / CAM is of Cast Iron construction. CAR/ CAS is of Stainless Steel construction

FEATURES

1. Back Pull Out Design
2. Closed, Radial Impeller Fitted with Protective Wear Ring
3. Outdoor Design
4. High Temperature Operation
5. High Efficiency 3D Impeller
6. Single Acting Mechanical Seal
7. Stainless Steel SCS 13 Impeller (optional)
8. Low NPSH and a Wide Application Range



Pump Type OH1



TECHNICAL DATA

Total Heads	up to 150 m
Capacity	up to 1600 m³/h
Size	32 mm to 200 mm
Temperature	up to 350°C

APPLICATION



High quality materials and structure designs are adopted to meet specification requirements for a variety of applications, including petrochemical, chemical and general industries, seawater desalination, high temperature heating equipment, energy-related equipment, cooling water circulation for skyscrapers, district heating and cooling, water transferring, and water feeding.



ENERGY SAVING & COST REDUCTION



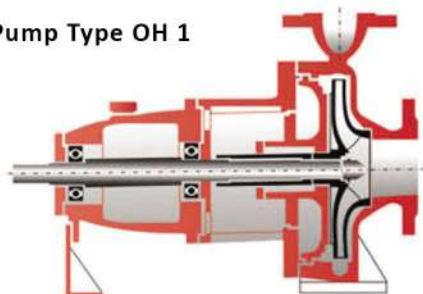
Eco pumps significantly reduce the life cycle cost of pumps and CO2 emissions because of their design (3D Impeller, Casing), motor (Torishima ultra high efficiency motor and optimized specification (impeller cut))

APPLICATION			
		CAL / CAM (Cast Iron) 	CAR / CAS (Stainless Steel) 
Handled liquid	Kinds	Clean water, Warm water, Oil, Chemical medicine, Brine, Heat transfer media, etc.	Pure water, Hot water, Sea water, Salted water, Refrigerant, Electrodeposition paint, Abrasive slurry liquid under 3wt%, etc.
	Temperature	Standard: -10°C to +80°C Option: -30°C to +350°C	Standard: -10°C to +80°C Option: -40°C to +220°C
Max. allowable discharge pressure		Standard: 1.6MPa Option: 2.5MPa	Standard: 1.4MPa Option: 2.5MPa
Max. allowable suction pressure		0.8 MPa for CAL / CAR 1.0 MPa for CAM / CAS	
Structure	Impeller	Closed	
	Shaft seals	Standard: Unbalanced mechanical seal (SiC × Carbon) for CAM / CAS, Rubber Belows for CAL / CAR Option: Unbalanced mechanical seal (SiC × SiC, Tungsten Carbide × Tungsten Carbide, etc.), Double mechanical seal, balanced mechanical seal, Gland packing	
	Lubricated bearing	Standard: Oil lubrication for CAM / CAS, Grease for CAL / CAR Option: Grease lubrication / Oil Lubrication	
Flange standard		Standard: JIS20K RF for CAM / CAS Option: JIS10K, ASME125lb/150lb/250lb/300lb, JPI150lb/300lb	Standard : JIS10K RF for CAL / CAR
Pump material	Casing	Standard: FC250 Option: FCD400-15	Standard: SCS13 Option: SCS14, SCS1T1 (SCS16, 11)
	Impeller	Standard: FC200 Option: FCD400-15, SCS1T1, SCS13	Standard: SCS13 Option: SCS1T1, SCS14
	Shaft	Standard: SUS420J2 Option: SCM440Q, SUS316L, SUS329J1, SUS304, SUS316	Standard: SUS304 Option: SUS316, SUS316L, SUS329J1

Industry applicable :



Pump Type OH 1

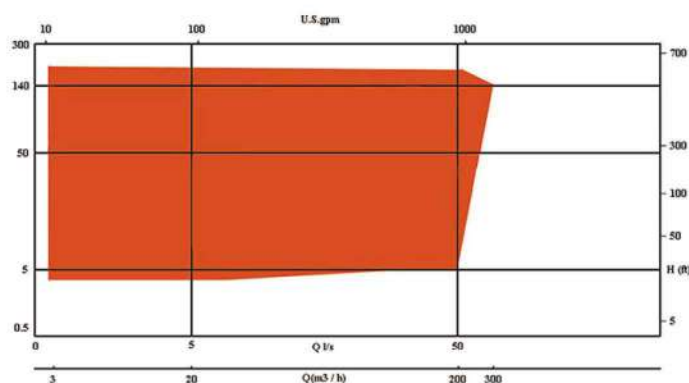


FEATURES

1. Back Pull Out Design
2. Closed, Radial Impeller
3. Outdoor Design
4. Shaft Protected by replaceable sleeve
5. Oil Lubricant Bearing

TECHNICAL DATA

Total Heads	up to 150 m
Capacity	up to 300 m ³ /hr
Size	40 to 100 mm
Temperature	up to 100°C



- Easy Maintenance
- Low NPSH
- High Efficiency
- Stable Characteristic
- Flexible Application

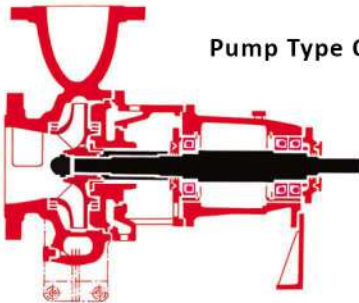
BENEFITS

APPLICATION

Cooling system, condensate, water feed for deaerator, process for general industries, mining services, fire fighting, hydrocarbon services, API 610 inspection performance & features is available as option.

Industry applicable :





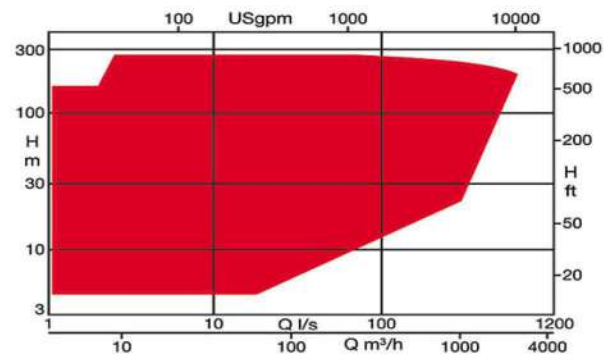
Pump Type OH 2

FEATURES

1. Design in accordance with API 610
2. Closed, Radial Impeller
3. Backpull Out Design
4. Shaft Protected by replaceable sleeve
5. Oil Lubricant Bearing

TECHNICAL DATA

	50 Hz	60 Hz
Q range	up to 3000 USGPM	2200 USGPM
H max	up to 240 m	200 m
Size	40 to 200 mm	
Pressure	up to 40 bar	
Temperature	-40 up to 350°C	



- Easey Maintenance
- Stable Characteristic
- Low NPSH
- Flexible Application
- High Efficiency

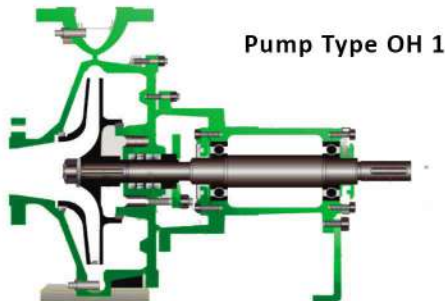
BENEFITS

APPLICATION

Oil refinery, offshore oil exploration, petrochemical industry, pulp & paper industry, power generation, mining services, fire fighting, hydrocarbon services, API 610 inspection performance & features is available as option.

Industry applicable :





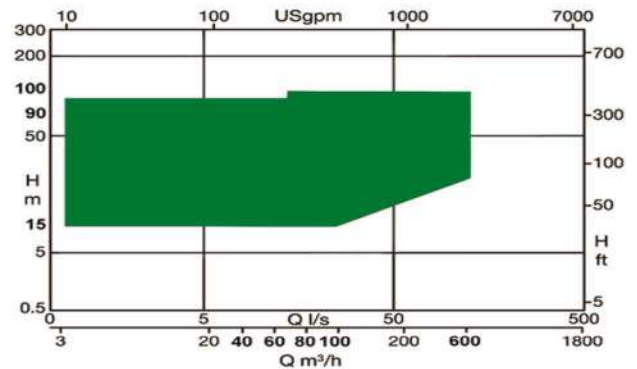
Pump Type OH 1

FEATURES

1. Backpull Out Design
2. Closed, Radial Impeller
3. Strong Stuffing Boxes
4. Shaft Protected by replaceable sleeve
5. Oil Lubricant Bearing

TECHNICAL DATA

Total Heads	up to 100 m
Capacity	up to 620 m ³ /h (170 l/s)
Size	32mm to 150 mm
Temperature	-10° C to 100° C



- Easey Maintenance
- Low NPSH
- High Efficiency
- Stable Characteristic
- Flexible Application

BENEFITS

APPLICATION

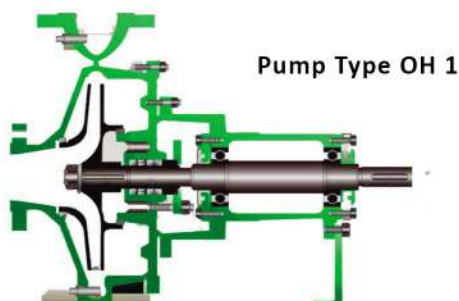
General water supply, irrigation and drainage, pumping of sea water, brine, alkali and condensate, circulating hot and cold water supply, sprinkling & fire fighting system, swimming pool, hydrocarbon services. API 610 inspection performance is available as option

Industry applicable :



CEN-O

END SUCTION NON CLOGGING PROCESS PUMP

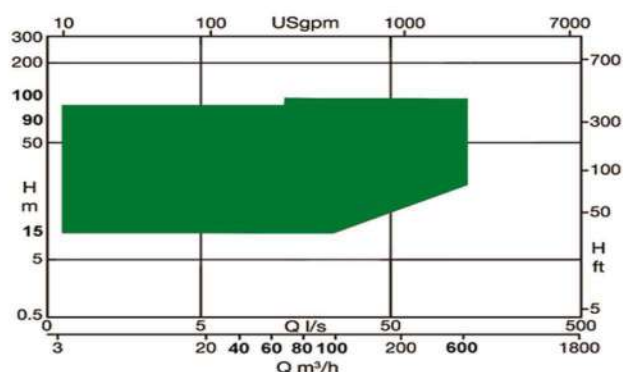


FEATURES

1. Backpull Out Design
2. Semi Open, Radial Flow Impeller
3. Strong Stuffing Boxes
4. Shaft Protected by replaceable sleeve
5. Oil Lubricant Bearing

TECHNICAL DATA

Total Heads	up to 100 m
Capacity	up to 620 m ³ /h (170 l/s)
Size	32mm to 150 mm
Temperature	-10°C to 100°C



- Easey Maintenance
- Low NPSH
- High Efficiency
- Stable Characteristic
- Flexible Application

BENEFITS

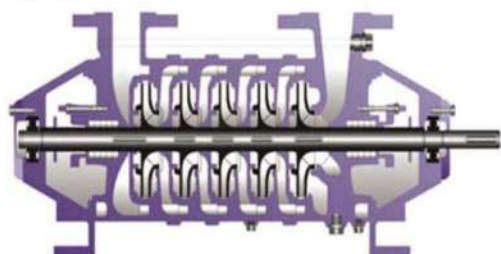
APPLICATION

Waste Water Industry : Clarified or mechanically filtered sewage and effluent, water screen, activated sludge
 Sugar Industry : Drainage of muddy liquids, milk of lime, mixed juice, concentrated juice.
 Palm Oil Mills : Process Pumps.
 Civil Engineering : Drainage of muddy water.
 Chemical Engineering : Pumping chemically corrosive liquids, chemical drainage and medium containing coarse mixture.

Industry applicable :



Pump Type BB4

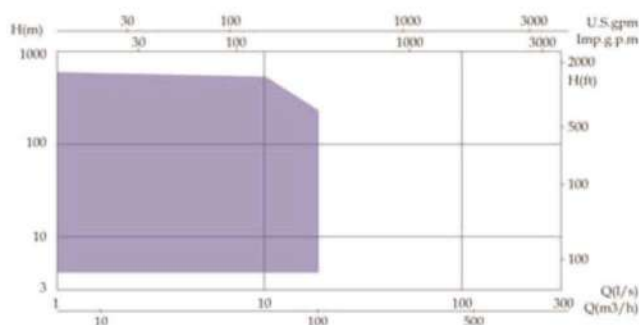


FEATURES

1. Compact Design
2. High Efficiency Impeller
3. Outdoor Design
4. Nozzle Orientation Freely Chosen
5. Material Combination
6. Horizontal Design
7. Shaft Protecting Sleeve

TECHNICAL DATA

Total Heads	up to 400 m
Capacity	up to 112 m ³ /hr
Size	3mm to 65mm
Temperature	up to 100° C



- Small Space Required
- Assured High Efficiency
- Flexible Application
- Easy Piping Arrangement
- Easy Installation
- Possible Combination of Three Different Impeller Diameter just to Fit the Requires Specification (costdown)

BENEFITS

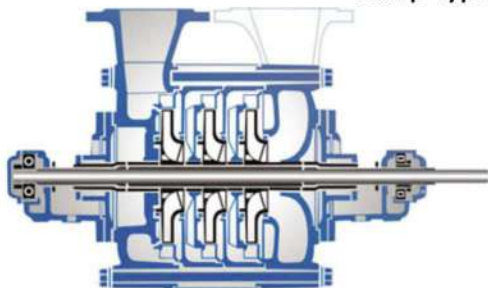
APPLICATION

Water works, pressure boosting system, sprinkling system, irrigation installation, fire fighting system, boiler feed, condensate, hydrocarbon services. API 610 inspection performance & features is available as option.

Industry applicable :



Pump Type BB4

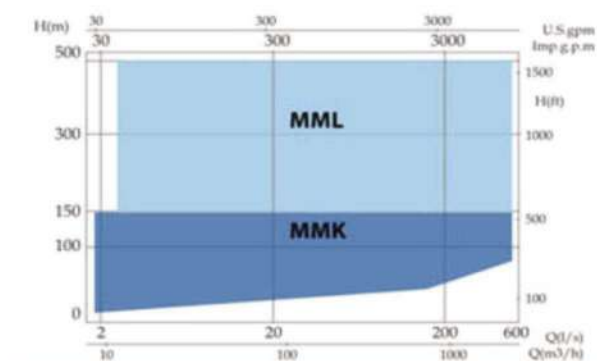


FEATURES

1. Mounting available below the Pump
2. High Efficiency Impeller
3. Absorption of Unbalanced Axial Thrust by Balancing Hole for MMK, and by Balancing Device for MML
4. Renewable Shaft Protecting Sleeve
5. Uncooled Packing Stuffing Box for Operating Temperatures up to 105°C

TECHNICAL DATA

Total Heads	up to 420 m
Capacity	up to 240 m ³ /hr
Size	40 to 150 mm
Temperature	up to 105°C (Normal type) up to 140°C (HW type)



- Better Axial Thrust Absorption
- Assured High Efficiency
- Wide Range Application
- Flexible Application

BENEFITS

APPLICATION

Used for general clean water supply duty and in the industry as a boiler feed pump, condensate pump, water supply pump, mining services, hydrocarbon services, API 610 inspection performance & features is available as option.



Industry applicable :



CDM

FEATURES

Torishima double suction volute pump CDM is newly designed with the most advanced hydraulic, providing less noise and vibration, wider operation range, lower NPSH required and higher efficiency. Particular in the pump efficiency, CDM is remarkably better than other brands, contributing to great cost reduction in operation.

1. High Efficiency Impeller Three-Dimensional Double Suction Impeller.
2. Horizontally Split Volume Casing Designed in accordance with Finite Element Method Construction Analysis.
3. Easily Fitted Casing Wear Ring and Shaft Sleeves
4. Easily Maintained Grease Lubricate Ball Bearing as Standard
5. Soft-Packed Stuffing Box as Standard
6. Design Can be Horizontal and Vertical

- Assured High Efficiency
- High Speed, Compact & Lightweight Design
- Stable Curves Characteristic

- Low NPSH Required
- Low Noise & Vibration
- Easy Maintenance (quick repair work)

BENEFITS

TECHNICAL DATA

Total Heads	up to 220 mm
Capacity	up to 6.000 m3/hr
Size	200 to 700 mm
Temperature	up to 80°C
Suction Pressure	5kg/cm2 (Mechanical Seal Type)
	3kg/cm2 (Gland Seal Type)

Sealing	Gland Packing, Mechanical Seal (optional)
Bearing / Lubrication	Grease lubricated - Deep Groove Ball Bearing Oil Lubrication (optional)
Flanges	JIS - 10kgf/cm G RF, JIS - 20kgf/cm G RF, etc.
Direction of Rotation	Clockwise viewed from the drive end. Counter-clockwise viewed from drive end (optional)

APPLICATION

Water intake, distribution, boosting, circulating, drainage, sea water desalination, district heating and cooling, water supply, irrigation, fire fighting, pipe line, mining services, etc.

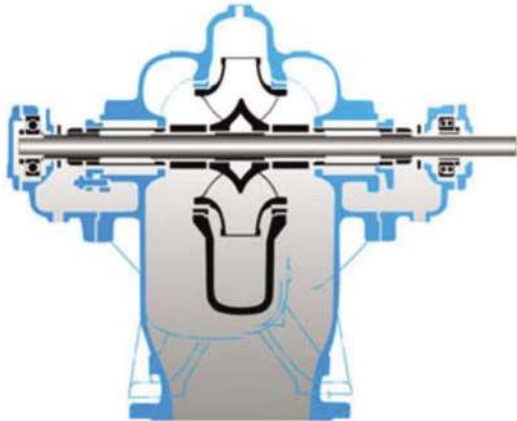
Industry applicable :



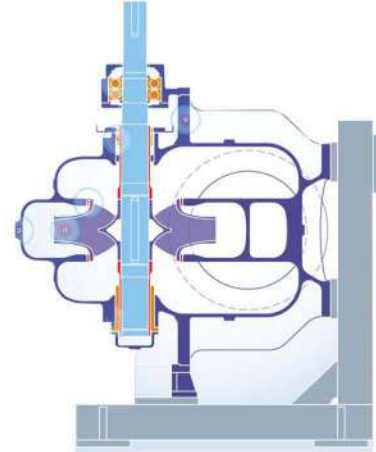
Pump Type BB1

DOUBLE SUCTION PUMPS

HORIZONTAL DOUBLE SUCTION PUMPS



VERTICAL DOUBLE SUCTION PUMPS



MATERIALS

Volute casing

- Cast Iron
- ductile cast iron
- stainless steel
- duplex stainless steel

Impeller

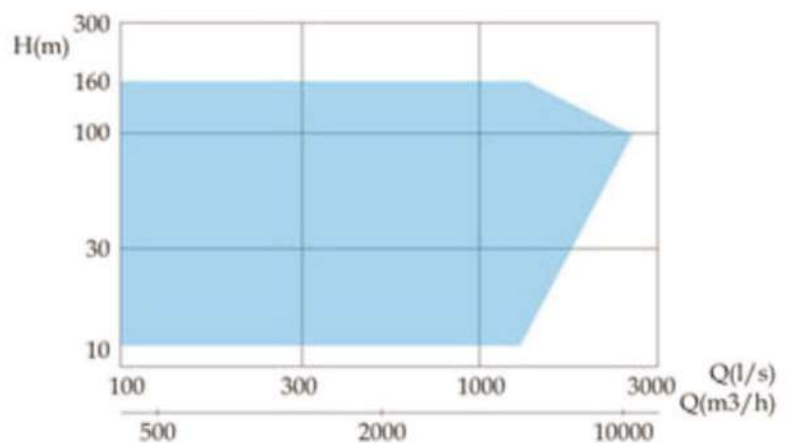
- Cast iron
- Bronze
- stainless steel
- duplex stainless steel

Shaft Sleeve

- Bronze
- stainless steel
- duplex stainless steel

Shaft

- Carbon steel
- chrome-molybdenum steel
- stainless steel
- duplex stainless steel

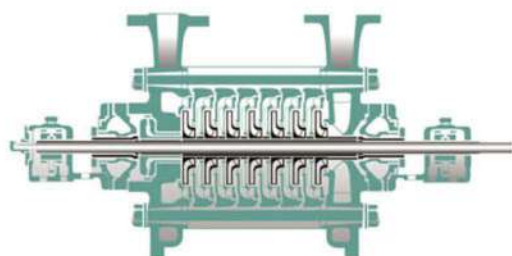


**COMPACT
HIGH EFFICIENCY
FOR ECONOMICAL
ENERGY SAVING
DESIGN**



FEATURES

Pump Type BB4



1. High Reliability and Durability

High reliability and durability by superior materials and precise manufacturing know-how under strict quality control.

2. Excellent Hydraulic Characteristic

As the impeller and diffuser are designed to be high efficiency, low NPSH and stable head/capacity curves in wide range and effective operation is ensured.

3. Excellent Hydraulic Characteristic

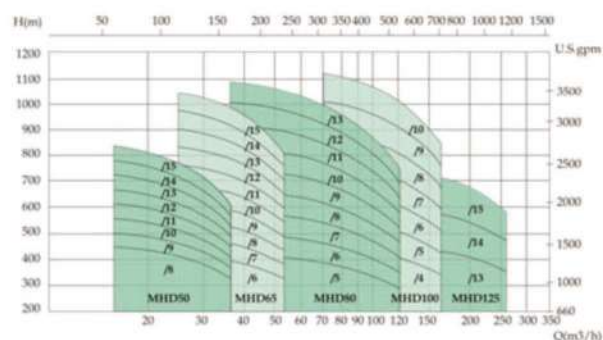
The construction is simplified and less components are used. Overhaul can be easily carried out, and number of spare parts reduced.

4. Brief Delivery

Under parts stock control system, these pumps are completely standardized for fast shipment.

TECHNICAL DATA

Q range	50 to 125 mm
H max	up to 150 m ³ /hr
Size	up to 30 bar
Pressure	up to 100 bar
Temperature	-10 to 180°C



APPLICATION

Boiler feed, reverse osmosis seawater desalination, high pressure service for all kind of industries.

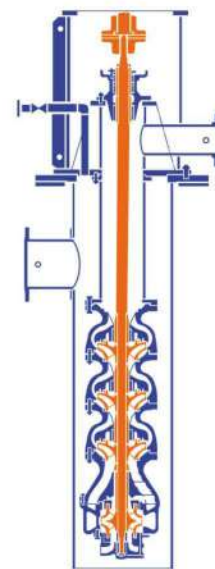
Industry applicable :



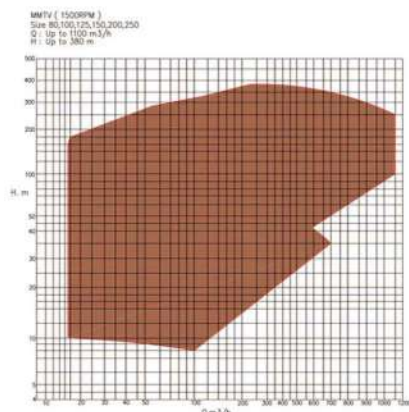
Using a high pressure vertical barrel centrifugal pump often presents advantage and ensures trouble-free operation, in those cases where the physical layout of the plant precludes the installation of the receiver vessel at a sufficient height to ensure adequate suction head for the pump under all operation conditions. This applies particularly in the case of condensers in power stations. The barrel of the pump serves as a pit, and by adding the required length of rising main, the pump can be installed at any depth desired, for some applications the barrel of the pump can be customized.

MATERIALS

Casing	Cast iron, Ductile iron, Stainless cast iron, Bronze
Impeller, the first stage	Stainless cast steel, Bronze, Cast steel
Impeller, the second stage of more	Cast iron, Ductile iron, 2%Ni cast iron, Stainless cast steel, Bronze
Shaft	Stainless steel



Pump Type VS1



TECHNICAL DATA

Total Heads	up to 490 m (1600 ft)
Capacity	up to 2.900 m³/hr
Size	40mm to 250mm
Temperature	up to 200° C

APPLICATION

Pumping hot water and condensate in power stations, fire fighting.

Industry applicable :



TORISHIMA GLOBAL NETWORK



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