Torishima Pump Global Network



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■ Manufacturing ■ Service Center

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PUMP PRODUCTS GUIDE

TORISHIMA PUMP MFG. CO., LTD



Innovative solutions coupled with expertise in pumping technology

TORISHIMA is a leading pump manufacturer, founded in 1919 in Osaka, Japan. Our primary objective is to contribute to society as a quality provider of pumping equipment and services. We continue to strive to be the market leader in our field. Our on-going investment in research and development highlights our commitment to provide the best technology for our customers. Our mission is always to listen to our customers, understand their needs and meet their expectations.



Content

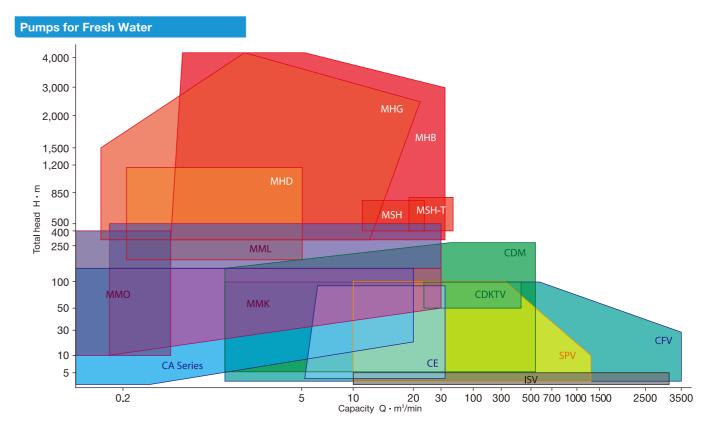
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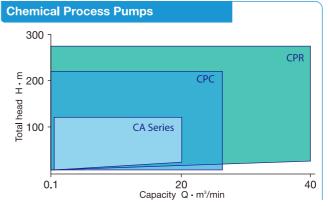
Main Pumps List

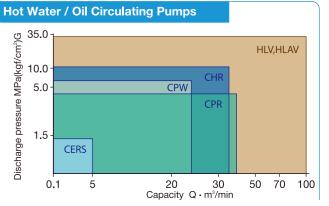
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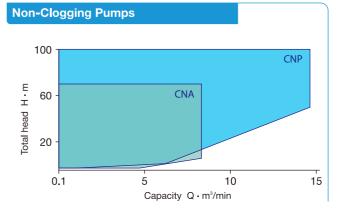
TORISHIMA MAIN PUMPS SELECTION TABLE

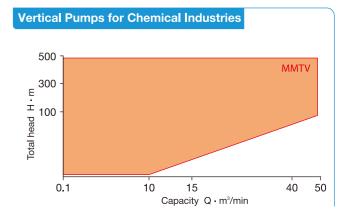
General specification ranges for 50Hz and 60Hz types are shown below.











Energy Industry

- 1 Condensate pump for combined cycle power plant (MMTV)
- 2 Vaporizing pumps for LNG plant (SPV)
- 3 Barrel type super critical boiler feed pump for coal fired power plant (MHB)
- 4 Super critical pressure boiler circulating pump for thermal power plant (HLV)
- 5 Ring section boiler feed pump for combined cycle power plant (MHG)
- 6 Circulating water pump for coal fired thermal power plant (SPV)

Chart for Selecting Pumps by Application

Applications

Main Application	Horizontal	Vertical	+ Horizontal/Vertica
Secondary Application	Horizontal	Vertical	Horizontal/Vertica



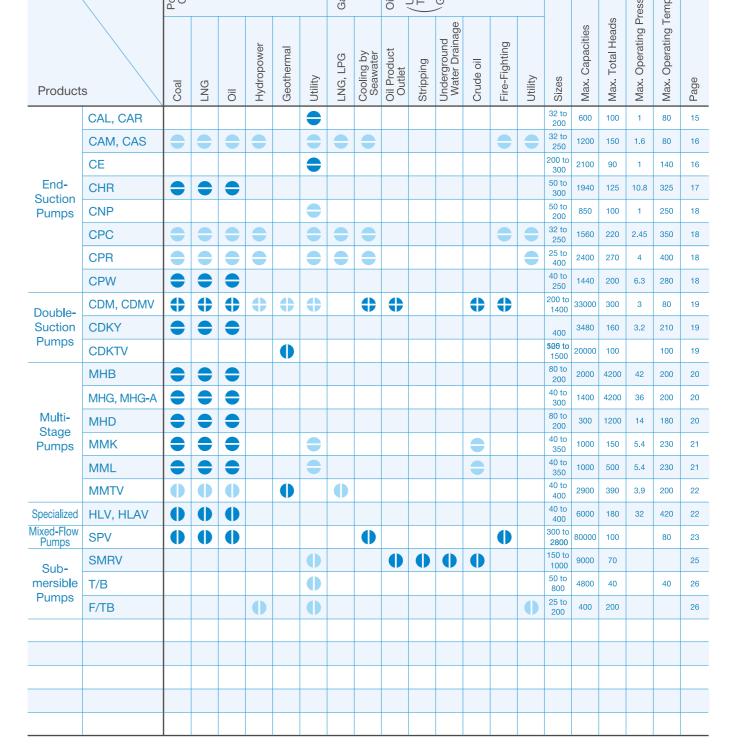












Municipal Water Works Industrial Water Works Small Capacity Water Works Desalination Plant

- 1 Water supply pumps for potable water distribution pumping station (CDM)
- 2 Long-distance potable water transmission pumps (CDM)
- 3 Brine recirculation pumps for MSF desalination plant (CDKTV)
- 4 Various seawater pumps for MSF desalination plant (CDM, SPV, SPSY)
- 5 High pressure seawater feed pump for RO desalination plant (MSH-T)
- 6 High pressure seawater feed pump for RO desalination plant (MSH)

Main Application	Horizontal	Vertical	Horizontal/Vertical
Secondary Application	Horizontal	Vertical	Horizontal/Vertical













	Applications	Municipal Waterworks	= 00 00							(RO)				mm	m³/h	Ш	ressure MPa	emperature °C	
Product	rs	Intake	Supply	Distribution	Brine Recirculation	Brine Blow Down	Seawater Feed	Product Water	High Pressure Feed	Filtered Water	Back Wash	Product Water	ERD Booster	Sizes	Max. Capacities	Max. Total Heads	Max. Operating Pressure	Max. Operating Temperature	Page
	CAL													32 to 300	600	100	1	80	15
	CAR													32 to 200	600	100	1	80	15
End-	CAM													32 to 250	1200	150	1.6	80	16
Suction	CAS													32 to 250	1200	150	1.6	80	16
Pumps	CBR												•	125 to 400	2000	70	8	80	16
	CFV	0	0	0										150 to 5000	210000	100			16
	CPC							•				•		32 to 250	1560	220	2.45	350	18
Double-	CDM, CDMV	+	•	•	+	4		+			•	•		200 to 1400	33000	300	3	80	19
Suction Pumps	CDKTV				0									500 to 1500	20000	100		100	19
	MSH	•	•	•					•					100 to 300	1500	750			21
	MSH-T								•					200 to 350	3000	800			21
Multi-	МНН	•	•	•					•					150 to 300	800	800			21
Stage Pumps	MHA													125 to 200	800	800			21
	MMK		•	•										40 to 350	1000	150	5.4	230	21
	MML													40 to 350	1000	500	5.4	230	21
	MMO													32 to 65	130	400	4	140	22
Mixed-	SPV	0			0	0	0	0		0				300 to 2800	80000	100		80	23
Flow Pumps	SPSY	•												350 to 1200	20000	50			23
	SMIV	0												400 to 700	4500	6			25
Sub-	SMSV	0												400 to 700	4200	14			25
mersible Pumps	SMV	0												150 to 1000	9000	70			25
	F/TB	0												25 to 250	400	200			26
	F/VC, F/VD F/UW, F/SP	0												40 to 300	660	90			26

Sewerage Agriculture Irrigation River Water

- 1 Storm water drainage pumps for sewage treatment plant (SPV)
- 2 Drainage pumps for agriculture (SP)
- 3 Irrigation pumps (CDM)
- 4 Sludge transfer pumps for sludge disposal plant (CNP)
- 5 Waste water transfer pumps for sewage treatment plant (CFV-sm)
- 6 Sewage pumps for sewage treatment plant (CFV)

Main Application	Horizontal	Vertical	+ Horizontal/Vertica
Secondary Application	Horizontal	Vertical	+ Horizontal/Vertica













Double-Suction Pumps CDM MS Multi- Stage Pumps MM	AL AM E V-SM	•	Sewage Disposal Plant	Sludge Disposal Plant	Storm Water Drainage	Small Capacity Sewerage	Agricultural Water Agriculture	Drainage	Irrigation, Sprinkler	control, River Water Supply	ization		cities	Heads	Max. Operating Pressure	Max. Operating Temperature	
CAI CAI CAI CAI CE Suction Pumps CF\ CN/ CNI Double-Suction Pumps MS Multi- Stage Pumps MM	AL AM E V-SM	•	Sewage Disposal Plant	Sludge Disposal Plant	Storm Water Drainage	Small Capacity Sewerage	Agricultural Wate	rainage	tion, Sprinl	control, supply	izatior		cities	Неа	ting	ting	
End-Suction Pumps CF\ CN/CNI Double-Suction Pumps MS Multi-Stage Pumps MM	TV-SM								Irriga	Flood Control, Water Supply	Water Utilization	Sizes	Max. Capacities	Max. Total Heads	Max. Opera	Max. Opera	Page
End-Suction Pumps CF\ CN/CNI Double-Suction Pumps MS Multi-Stage Pumps MM	EV-SM											32 to 300	600	100	1	80	15
Suction Pumps CF\ CN CNI Double-Suction Pumps MS Multi- Stage Pumps MM	FV-sm											32 to 250	1200	150	1.6	80	16
Suction Pumps CF\ CN\ CNI Double-Suction Pumps MS Multi- Stage Pumps MM	V-sm											200 to 300	2100	90	1	140	16
CPV CN/ CNI Double-Suction Pumps CDI MS Multi- Stage Pumps MM	NA .	45		0	0		0	0		0	0	150 to 5000	210000	100			17
Double-Suction Pumps CDM MS Multi-Stage Pumps MM		0			0							200 to 600	3000	50			17
Double-Suction Pumps CDI MS Multi- Stage Pumps MM	JP											50 to 200	500	70	1	140	17
MS Multi- Stage Pumps MM MM			•									50 to 250	850	100	1	250	18
MS Multi- Stage Pumps MM	M, CDMV	•					+	+	+			200 to 1400	33000	300	3	80	19
Multi- Stage MM Pumps MM	SH											100 to 300	1500	750			21
Stage MM Pumps MM	SH-T											200 to 350	3000	800			21
MIV	ИΚ								-			40 to 350	1000	150	5.4	230	21
MM	ИL											40 to 350	1000	500	5.4	230	21
1,4114	MO											32 to 65	130	400	4	140	22
SP)	•								•		400 to 2000	36000	9			23
Mixed- SP\	PV	0	0		0		0	0		0		300 to 2800	80000	100		80	23
Flow Pumps SPS	S, SPSY						•	•				350 to 1200	20000	50			23
SPS	PSX											250 to 350	1380	17			24
Axial- IS										•	•	400 to 2000	36000	5			24
Flow Pumps ISV	/		0		0		0	0		0	0	400 to 4600	186000	5			24
SM	/II, SMS											400 to 5000	210000	8			25
Sub-	ΛΙV				0		0	0		0	0	400 to 700	4500	6			25
mersible SM	//SV				0		0	0		0	0	400 to 700	4200	14			25
Pumps T/B	3, T/C, T/N	0	0		0	0						50 to 800	4800	40		40	26
F/T	ГВ						0		0			25 to 200	400	200			26
F/VC F/U\	C, F/VD IW, F/SP						0		0		0	40 to 300	660	90			26
Miscellaneous Pumps SNI		0			0							400 to 3500	18000	10			28

Regional Development Urban Development

- 1 Pumps for air conditioning system for building facility (CAL)
- 2 Cooling water pumps for district heating and cooling system (CDM)
- 3 Boiler feed pumps for district heating and cooling system (MML)
- 4 Cooling water pumps for district heating and cooling system (CDM)
- 5 Cooling water pumps for air conditioning facility (CE)
- 6 Boiler feed pumps for district heating and cooling system (MMO)

Main Application	Horizontal	Vertical	Horizontal/Vertical
Secondary Application	Horizontal	Vertical	Horizontal/Vertical













	Applications	Intelligent Building									mm	m³/h	E	essure MPa	emperature °C							
Product	s	Air Conditioning	Water Supply and Drainage, Sanitation	Fire-Fighting	Cooling Water	Cold Water	Hot Water	Boiler Feed	Vacuum Supply Water, Supply Water, Raw Water	Water Supply	Drainage	Sewage Treatment	Water Supply	Drainage	Sewage Treatment	Fountains	Sizes	Max. Capacities	Max. Total Heads	Max. Operating Pressure	Max. Operating Temperature	Page
	CAL																32 to 200	600	100	1	80	15
	CAR																32 to 200	600	100	1	80	15
End-	CAM																32 to 250	1200	150	1.6	80	16
Suction	CAS		•														32 to 250	1200	150	1.6	80	16
Pumps	CE																200 to 300	2100	90	1	140	16
	CNA		•									-					50 to 200	500	70	1	140	17
	CPC		•										•				32 to 250	1560	220	2.45	350	18
Double-Suction Pumps	CDM, CDMV	•	+		•	•				•			•				200 to 1400	33000	300	3	80	19
Multi-	MMK		•										•				40 to 350	1000	150	5.4	230	21
Stage	MML												-				40 to 350	1000	500	5.4	230	21
Pumps	ММО												•				32 to 65	130	400	4	140	22
Sub-	T/B, T/C, T/N		0								0	0		•	0		50 to 800	4800	40		40	26
mersible	F/TB		0							0			0			•	25 to 200	400	200			26
Pumps	F/VC, F/VD F/UW, F/SP		0							0			0			0	40 to 300	660	90			26
	K/LP																25 to 100	84	60		100	27
Miscel- laneous	N/WR																15 to 80	72	300		90	27
Pumps	TE/O																25 to 200	300	40		40	28
	S/T	0			0	•				•			0				40 to 150	600	75	1	80	28

Chemical Industry

- 1 Process pumps for chemical plant (CPC)
- 2 Process pumps for DMT plant (CPC)
- 3 Cooling water pumps for petrochemical plant (CDM)
- 4 Boiler feed pump for petrochemical plant (MHD)
- 5 Cooling water pump for ammonia production plant (CDM)
- 6 Cooling water pumps for oil refinery plant (CPC)

Main Application	Horizontal	Vertical	+ Horizontal/Vertica
Secondary Application	Horizontal	Vertical	Horizontal/Vertica













	Applications	Petro-Chemical		Inorganic Chemical		Chemical Fertilizer		Fine-Chemical		Bio-Chemical		Oil and Coal Products		mm	m³/h	Ш	ressure MPa	emperature °C	
Product	es .	Process	Utility	Process	Utility	Process	Utility	Process	Utility	Process	Utility	Refinery	Coal Conversion	Sizes	Max. Capacities	Max. Total Heads	Max. Operating Pressure	Max. Operating Temperature	Page
	CAL		•		•		•							32 to 200	600	100	1	80	15
	CAR		•	•				•		•				32 to 200	600	100	1	80	15
	CAM		•		•				•		•			32 to 250	1200	150	1.6	80	16
	CAS		•	•				•		•				32 to 250	1200	150	1.6	80	16
End- Suction	CE				•									200 to 300	2100	90	1	140	16
Pumps	CERS			•										32 to 100	300	98	1.4	340	16
	CNP			•									•	50 to 250	850	100	1	250	18
	CPC													32 to 250	1560	220	2.45	350	18
	CPR													25 to 400	2400	270	4	400	18
	CPW			•										40 to 250	1440	200	6.3	280	18
Double-Suction Pumps	CDM													200 to 1400	33000	300	3	80	19
	MHB													80 to 200	2000	4200	42	200	20
	MHG, MHG-A													40 to 300	1400	4200	36	200	20
Multi-	MHD													80 to 200	300	1200	14	180	20
Stage Pumps	MMK		•		•		•							40 to 350	1000	150	5.4	230	21
	MML		•		•									40 to 350	1000	500	5.4	230	21
	MMTV	0		0		0						0	0	40 to 400	2900	390	3.9	200	22
Mixed-Flow Pumps	SPV		0		0		0							300 to 2800	80000	100		80	23
Submersible Pumps	T/B, T/C, T/N		0				0							50 to 800	4800	40		40	26
Miscellaneous Pumps	N/WR													15 to 80	72	300		90	27

General Industry

- 1 Water supply pumps for machinery plant (CAL)
- 2 Treated water pumps for beverage plant (CAR)
- 3 Process pumps for beer brewery plant (CAR)
- 4 Furnace cooling water pump for steel plant (CDM)
- 5 Cooling water pump in paper mill (CDM)
- 6 Plating cooling water pumps for steel plant (CAL)

Main Application	Horizontal	Vertical	+ Horizontal/Vertica
Secondary Application	Horizontal	Vertical	Horizontal/Vertica













	Applications	Iron and Steel	Nonferrous Metal	New Materials			Motor Car	Ceramics	Paper & Pulps		Food		Shipbuilding	mm	m³/h	Ш	ressure MPa	emperature °C	
Product	s	Water Intake, Water Supply	Cooling Water	Descaling	Waste Water Treatment	Utility	Water Supply	Drainage	Process	Utility	Process	Utility	Dock Drainage	Sizes	Max. Capacities	Max. Total Heads	Max. Operating Pressure	Max. Operating Temperature	Page
	CAL, CAR									•	•			32 to 200	600	100	1	80	15
	CAM, CAS									•				32 to 250	1200	150	1.6	80	16
	CE									•	•			200 to 300	2100	90	1	140	16
End- Suction	CERS													32 to 100	300	98	1.4	340	16
Pumps	CNA										•			50 to 200	500	70	1	140	17
	CNP													50 to 200	850	100	1	250	18
	CPC													32 to 250	1560	220	2.45	350	18
	CPW													40 to 250	1440	200	6.3	280	18
Double-Suction Pumps	CDM													200 to 1400	33000	300	3	80	19
	MHG, MHG-A													40 to 300	1400	4200	36	200	20
Multi-	MHD													80 to 200	300	1200	14	180	20
Stage	MMK													40 to 350	1000	150	5.4	230	21
Pumps	MML													40 to 350	1000	500	5.4	230	21
	MMO													32 to 65	130	400	4	140	22
Specialized	HLV, HLAV					•								40 to 400	6000	180	32	420	22
Mixed-Flow Pumps	SPV	0	0			•							0	300 to 2800	80000	100		80	23
	S/M				0			•		0		0		40 to 350	1000	230			26
Sub- mersible	T/B, T/C, T/N				0			•		0		0		50 to 800	4800	40		40	26
Pumps	F/TB	0								0		0		25 to 200	400	200			26
	F/VC, F/VD F/UW, F/SP						0			0				40 to 300	660	90			26
Miscel-	N/WR													15 to 80	72	300		90	27
laneous	TE/O													25 to 200	300	40		40	28
Pumps	O/PS													50 to 250	780	70			28

Main Pumps List



End-Suction Pumps P.15



Double-Suction Pumps P.19



Multi-Stage Pumps P.20



Submersible Pumps P.25

P.24

Mixed-Flow Pumps

Axial-Flow Pumps



Miscellaneous Pumps P.27

End-Suction Pumps

Specialized Pumps



CAL (Cast Iron), CAR (Stainless Steel)

10bar end-suction volute pump

We call CAL and CAR the Eco-Pumps which are eco-friendly semi-ordered standard pumps applying the state of the art technology of our large-sized high-efficiency engineered pumps.

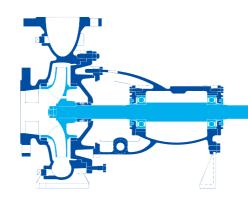
The big features of CAL and CAR:

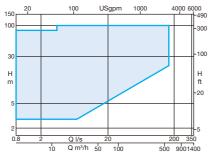
- CFD (Computational Fluid Dynamics) optimized casing design ensures smooth fluid flow.
- 2) Three dimensional curved impeller optimizes smooth fluid flow.
- 3) Meeting customer's specification by impeller cut.
- 4) Excellent parts interchangeability

■ Applications

Feed / Drainage water for general industries, Feed / Drainage water / Various processes for chemical / food industries,

Water intake / Distribution / Supply for water works, Water pumping, Fire-fighting, Industrial water, Cold / Hot water circulation in district heating / cooling plants, etc.





 Capacity
 up to 600 m³/h / 2,640 USgpm

 Total Head
 up to 100 m / 320 ft

 Temperature
 -10 to 80°C / -50 to 170°F

 Pressure
 up to 1 MPa / 10 bar / 145 psi

 Size
 32 to 200 mm

CAM (Cast Iron), CAS (Stainless Steel)

16bar end-suction volute pump

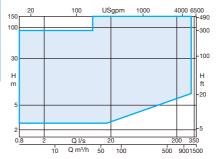
In common with CAL and CAR as CA series, CAM and CAS are totally optimized design pumps which adopt the efficient impeller design.

Applications

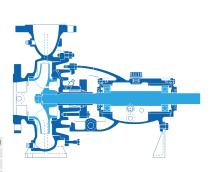
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Cold / Hot water circulation in district heating / cooling plants,

Water intake / Distribution / Supply for water works, Water pumping, Fire-fighting, Industrial water, etc.







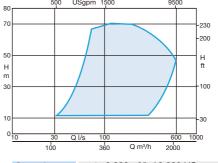
CBR

End-suction volute pump for ERD booster

Centerline pump foot mounted. Used as booster pump for SWRO desalination and energy recovery purpose.

Applications

ERD booster pumps for high pressure line in RO desalination plants



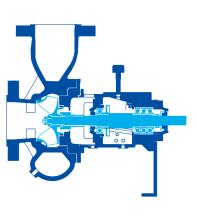
 Capacity
 up to 2,000 m²/h / 8,800 USgpm

 Total Head
 up to 70 m / 280 ft

 Temperature
 up to 80°C / 176°F

 Pressure
 up to 8 MPa / 80 bar / 1,160 psi

 Size
 125 to 400 mm



CE

End-suction volute pump

A single- or two-stage end-suction volute pump. Various materials and structural designs employed to meet specification requirements for a variety of applications from fresh water, chemicals and heat transfer.

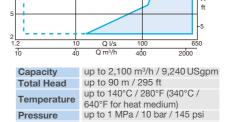
Applications

Water intake / Distribution / Supply / Boosting / Clarification for water works, Various processes for chemical industries,

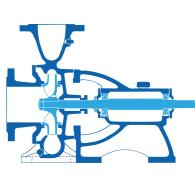
Water pumping / Drainage for agriculture, Boiler feed pump,

Heat medium circulation.

Heater drain, etc.



200 to 300mm



CERS

End-suction volute pump for heat transfer oil

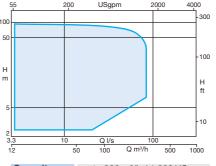
Specialized for heat transfer oil.

Effective air-cooled design leads to no requirement for cooling at shaft sealing or bearing to 340°C heat transfer oil.

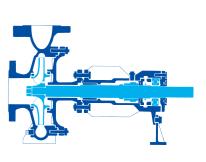
Applications

Dry / Agitator / Heating systems for chemical industries,

Oven / Dry / Heating systems for food industries, Dry / Heating systems for general industries, etc.







CFV

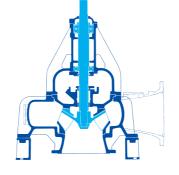
Vertical mixed-flow volute pump

Applicable for wide range from low head to high head. Sutable for relay pumps in sewage treatment facilities.

Applications

Sewage transfer, Rain water drainage, Water intake / Distribution / Boosting for water works, Water pumping / Drainage for agriculture, etc.

100000 200000 300000 400000 Q l/s 2800 8300 Q m³/h 10000 30000



Capacity 120 to 72,000 m³/h / 790 to 317,000 USgpm **Total Head** 5 to 100 m / 16 to 320 ft 200 to 3,000 mm

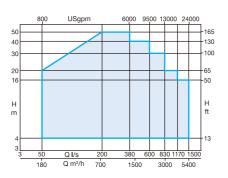
CFV-SM

Vertical mixed-flow volute pump with motor

CFV-SM is a pump with a submersible motor, which prevents outage during floods. No intermediate shaft between a motor and a pump is needed. The equipment is consolidated in one pump room, which allows simple facility and reduces operation and maintenance costs.

Applications

Sewage transfer, Rain water drainage, Water intake / Distribution / Boosting for water works, Water pumping / Drainage for agriculture, etc.



Capacity 180 to 5,400 m³/h / 790 to 13,200 USgpm **Total Head** 4 to 50 m / 13 to 160 ft 200 to 800 mm



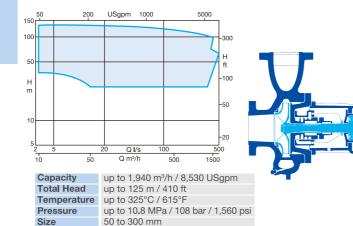
CHR

End-suction volute pump for hot water circulation

Applicable mainly for hot water circulation of forced-circulation boilers. The forced cooling system is applied to the bearing bracket, stuffing box and base plate.

Applications

Hot water circulation for forced-circulation boilers in thermal power plants, Petrochemical industries, Coal gasification plants, Oil refinery, etc.



CNA

Non-clogging end-suction volute pump

The discharge opening of the non-clogging impeller is produced especially wide to permit free passing of any solids measuring 50 to 70% of the pump nozzle size.

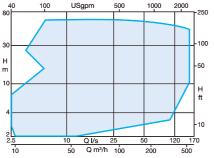
Applications

Sewage transfer,

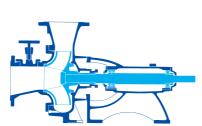
Transfer / Drainage of liquids containing sludge for general industries.

Transfer of grain and water mixtures,

Transfer of cellulous pulp of less than 2.5% B.D. free from air, etc.



Capacity 9 to 500 m³/h / 39 to 2,200 USgpm Total Head up to 70 m / 230 ft Temperature up to 140°C / 280°F 50 to 200mm



CNP

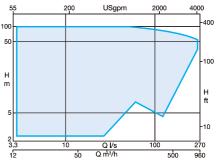
Non-clogging End-suction volute pump

Five kinds of standardized impellers available according to liquid. Applicable in various industries. The back pull-out structure and high interchangeability of this pump providing ease of maintenance.

Applications

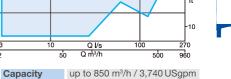
Transfer of corrosive liquids / abrasive liquids / chemical drainage including rough mixtures for chemical industries.

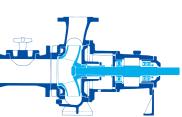
Transfer / Drainage of solid mixtures for food / general industries, etc.



Total Head up to 100 m / 320 ft

Temperature -30 to 250°C / -20 to 480°F 50 to 200mm





End-Suction Pumps

CPC

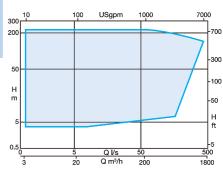
End-suction volute pump for process

Conforms to ISO2858. A wide range of structural designs of material and seals meet various specification requirements as process pump for chemical and general industries.

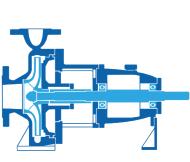
Applications

Cooling systems / Water feed for deaerator / Condensate / Drain for energy industries, Processes for petrochemical / chemical industries, Water feed / Drainage for general industries, District cooling and heating, Water pumping,

Fire-fighting, etc.







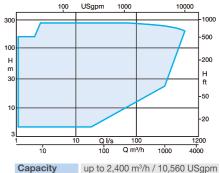
CPR

End-suction volute pump for process

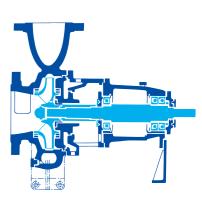
Simple and durable design providing high reliability. Widely used for oil refinery, petro-chemical, and general industries. Series with inducer for low NPSH reg. also available.

Applications

Processes for oil refinery / petrochemical / general industries



Total Head up to 270 m / 885 ft **Temperature** -70 to 400°C / - 150 to 750°F Pressure up to 4 MPa / 40 bar / 580 psi 25 to 400 mm



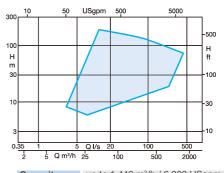
CPW

End-suction volute pump for hot water circulation

Centerline pump foot mounted. Mainly used as feed pump or circulation pump of hot water in large-size heating systems.

Applications

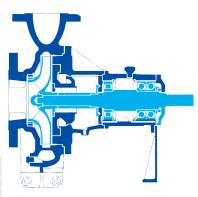
Feed water / Circulation in high pressure hot water generating plants





Capacity up to 1,440 m³/h / 6,300 USgpm Total Head up to 200 m / 670 ft Temperature up to 280°C / 530°F

Pressure up to 6.3 MPa / 63 bar / 910 psi 40 to 250 mm



Double-Suction Pumps



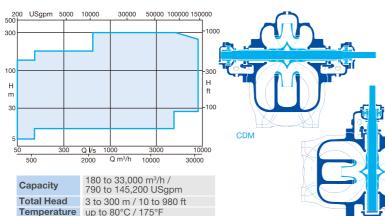
CDM, CDMV(Vertical)

Axially split double-suction pump

The world's most advanced high efficiency pump achieved by design to match the double suction and three-dimensional impeller with the latest hydraulics. Simple disassembly of upper half casing without disturbing pipe work enables ease of maintenance and inspection.

Applications

Water intake / Distribution / Boosting / Circulation / Drainage / Fire-fighting in energy industries, Cooling water circulation for district heating and cooling, Water intake / Distribution / Boosting for general industries, Water intake / Distribution / Water supply / Boosting for seawater desalination / water works / sewage, Irrigation for agriculture, Drainage, Pipe-line boosting, etc.



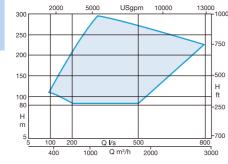
CDKY

Horizontal radially split double-suction pump

The rotating parts can be taken out by removing the side cover in axial direction. Suitable for handling high temperature and pressure liquids in chemical plants and power plants. CDKY mainly used as booster pump for boiler feed pump and hot water circulation pump.

■Applications

Processes for power / chemical / pulp industries, etc.



200 to 1,400 mm

 Capacity
 up to 2,800 m³/h / 12,300 USgpm

 Total Head
 up to 300 m / 980 ft

 Temperature
 up to 200°C / 390°F

 Size
 200 to 450 mm



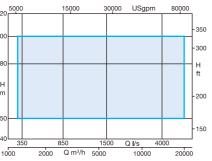
CDKTV

Vertical double-suction pump with canister

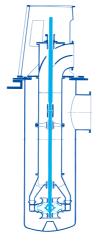
The hydraulic design of the double-suction impeller offering low-shut off head, low NPSH and high speed. Mainly applicable for brine recirculation in seawater desalination plants and condensate in geothermal power plants when severe suction condition with large capacity and high head required.

■Applications

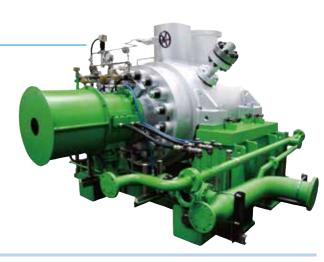
Brine recirculation / Brine blow down for seawater desalination, Hot well / Large volume condensate in geothermal power plants



Capacity up to 20,000 m³/h / 88,000 USgpm up to 100 m / 320 ft
Temperature Size 500 to 1,500 mm



Multi-Stage Pumps



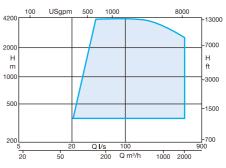
MHB

Radially split barrel casing pump

The barrel casing is fully welded to the pipe work and supported at its centerline on a fabricated steel base plate. The inner cartridge, which contains all pump components except the barrel and main stud bolts, is removable from the barrel as a complete unit for ease of maintenance.

Applications

Boiler feed in thermal power plants, High pressure feed water for various industries, etc.



 Capacity
 up to 2,000 m³/h / 8,800 USgpm

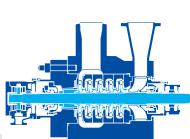
 Total Head
 up to 4,200 m / 13,800 ft

 Temperature
 up to 200°C / 390°F

 pressure
 up to 42 MPa / 420 bar / 6,090 psi

 Speed
 up to 7,000min⁻¹

 Size
 80 to 200 mm



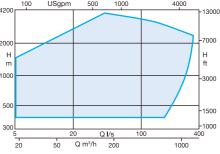
MHG, MHG-A

Horizontal multistage ring section pump

Radially split ring-section high-pressure multistage diffuser type pump. No warming through required enabling rapid start-up.

Applications

Boiler feed in power plants, High pressure feed water for various industries,



 Capacity
 up to 1,400 m³/h / 6,100 USgpm

 Total Head
 up to 4,200 m / 13,800 ft

 Temperature
 up to 200°C / 390°F

 Pressure
 up to 36 MPa / 360 bar / 5,220 psi

 Speed
 up to 7,000 min¹

 Size
 up to 300 mm





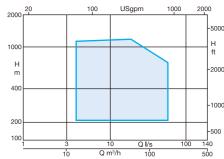
MHD

Horizontal multistage ring section pump

Radially split ring-section high-pressure multistage diffuser type pump achieving high efficiency and low NPSH. No warming through required enabling rapid start-up.

Applications

Boiler feed in power plants, High pressure feed water for RO desalination / various industries, etc.



 Capacity
 up to 300 m³/h / 1,320 USgpm

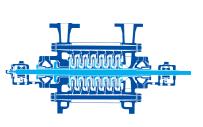
 Total Head
 up to 1,200 m / 4,000 ft

 Temperature
 up to 180°C / 350°F

 Pressure
 up to 14 MPa / 140 bar / 2,030 psi

 Speed
 up to 3,600 min⁻¹

 Lize
 40 to 125 mm



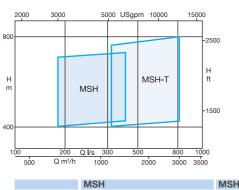
MSH, MSH-T(Twin-Suction)

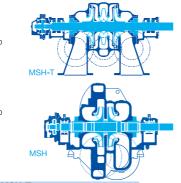
Horizontal axially split multistage volute pump

The axially split design offers ease of maintenance of rotating equipment without removing the lower casing. MSH-T covering high head range is twin-suction structure to satisfy high suction capability.

Applications

High pressure seawater feed for RO desalination, Distribution for water works, Water pumping for agriculture, etc.





	MSH
apacity	up to 1,500 m ³ /h / 6,600 USgpm
otal Head	up to 750 m / 2,460 ft
ize	100 to 300 mm

up to 3,000 m³/h / 13,200 USgpm up to 800 m / 2,620 ft 200 to 350 mm

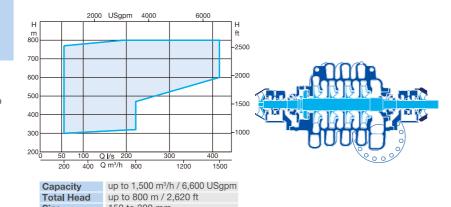
MHH

Axially split multistage pump

The axially split design offers ease of maintenance of rotating equipment without removing the lower casing. Applicable for high to low head duty by changing the number of

Applications

High pressure seawater feed for RO desalination, Distribution for water works, etc.



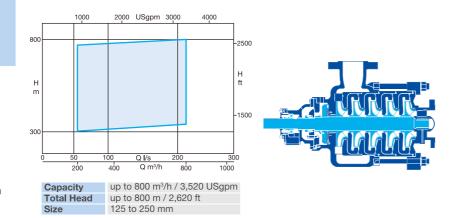
MHA

Horizontal end-suction multistage ring section pump

Submerged bearing, radially split and compact design. The diffuser guides flow from impeller discharge to next impeller suction eye. The axial force is compensated by a hydraulic balancing device. The integrated design accumulated by high pressure and high speed pumps results in excellent cost performance and high efficiency.

Applications

High pressure seawater feed for RO desalination



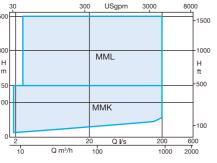
MMK, MML

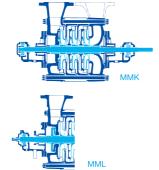
Horizontal multistage ring section pump

Axial thrust of MMK is balanced by the impeller balance holes, and by way of MML the balance disc. so that MMK and MML can operate with high reliability at high speed.

Applications

Boiler feed in power plants, High pressure feed water for various industries, Condensate for seawater desalination, Distribution / Boosting for water works, Irrigation for agriculture, etc.





	MMK
Capacity	up to 1,000 m ³ /h / 4,400 USgr
Total Head	up to 150 m / 490 ft
Temperature	up to 230°C / 440°F
Size	40 to 350 mm

up to 1,000 m³/h / 4,400 USgpm up to 500 m / 1,640 ft up to 230°C / 440°F 40 to 350 mm

MMO

Multistage ring section pump

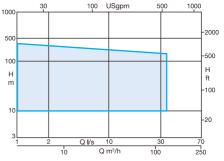
Compact and light-weight. Pump feet integrally cast onto bearing housings, allowing free orientation of both suction and discharge nozzles. No cooling of shaft seals required up to 140°C liquid.

Applications

Boiler feed / Condensate / Distribution for general industries, Water intake / Distribution / Water supply /

Boosting for water works,

Feed water / Drainage in building facilities, Cooling water / Hot and Cold water circulation, Water pumping / Drainage for agriculture





Capacity	up to 130 m ³ /h / 570 USgpm
Fotal Head	up to 400 m / 1,320 ft
Temperature	up to 140°C / 280°F
Size	32 to 65 mm

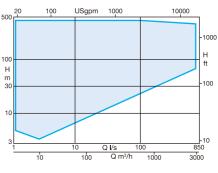
MMTV

Vertical multistage pump with canister

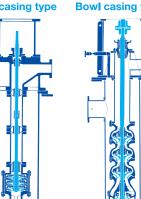
The high pressure vertical canister pump offers significant advantage in those cases where limited suction head is available. Applicable especially for condensers in power plants, desalination plants and other pipeline pumping applications.

Applications

Hot water / Condensate / High and low pressure drain in thermal power plants







Capacity up to 2,900 m³/h / 12,760 USgpm **Total Head** up to 390 m / 1,280 ft Temperature up to 200°C / 390°F Pressure up to 3.9 MPa / 39 bar / 565 psi 40 to 400 mm

Specialized Pumps



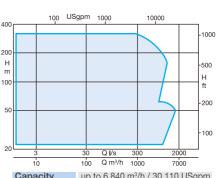
HLV, HLAV

Glandless(sealless) pump motor unit (Boiler circulation pump)

Pump and motor are integrated in a pressure-tight casing. The glandless design (no shaft seal) makes this pump best suited for pumping of high temperature and high pressure liquids without any leakage. Volute, annular or spherical casing designs optionally available.

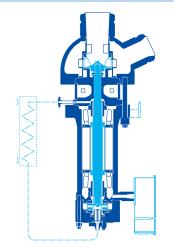
Applications

Boiler circulation in super / sub critical power plants





up to 6,840 m³/h / 30,110 USgpm Total Head up to 320 m / 1,000 ft Temperature up to 420°C / 790°F **Pressure** up to 33 MPa / 330 bar / 4,790 psi Motor Rating up to 1,500 kW 400V to 11 kV 40 to 400 mm





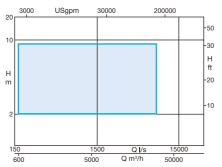
SP

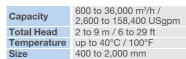
Horizontal mixed-flow pump

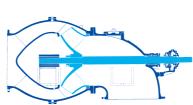
Offering the highest efficiency in low head and large capacity range. The axially split design offering ease of maintenance of rotating equipment without removing the lower casing.

Applications

Water pumping / Drainage for agriculture, Sewage transfer. Rain water drainage. Storm surge drainage, etc.







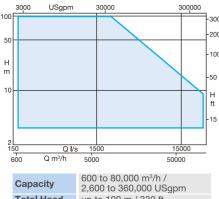
SPV, SPTV (Canister)

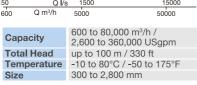
Vertical mixed-flow pump

Diffuser type, single or multistage design, mixed-flow impeller suspended within wet pit. Offering various hydraulic models, materials, and installation arrangement (above or below floor discharge) to suit the plant specific design.

Applications

Rain water drainage / Water intake for water works / sewage, Circulation / Cooling water / Condensate in power plants, Seawater intake / Brine recirculation for seawater desalination, Water intake / Cooling water for petro-chemical industries, Cooling water / Water intake / Dock drainage for general industries







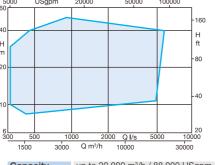
SPS, SPSY

Mixed-flow volute pump

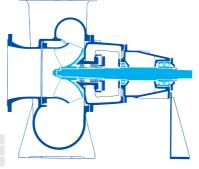
Suitable for fresh water and waste water pumping. Both open and closed type impeller available.

Applications

Distribution / Drainage for water works / sewage, Water pumping for agriculture, Cooling water in power plants, Seawater recirculation for seawater desalination,







Mixed-Flow Pumps

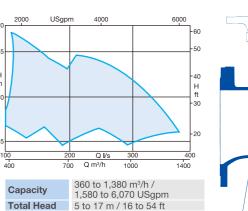
SPSX

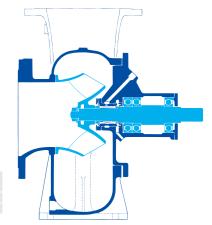
Mixed-flow volute pump

Mainly used for water pumping and drainage for agriculture. Simple back pull-out structure allowing ease of overhaul.

Applications

Water pumping / Drainage for agriculture, Drainage for civil engineering work, Flood control, etc.





Axial-Flow Pumps

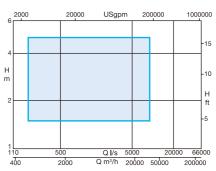


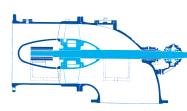
Axial-flow propeller pump

Diffuser type, axial flow propeller suspended within wet pit. Offering various hydraulic models suitable for large capacity with low pump head of water. Axially split design offering easy maintenance without removing the lower casing.

Applications

Water pumping / Drainage for agriculture, Sewage transfer, Rain water drainage, Storm surge drainage, etc.







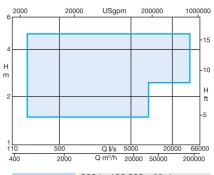
ISV

Vertical axial-flow propeller pump

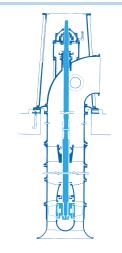
Diffuser type, axial flow propeller suspended within wet pit. Especially used for large capacity with low head of water. The various hydraulic models applied to the change of the capacity and

Applications

Water pumping / Drainage for agriculture, River water drainage, Cooling water in power plants







Submersible Pumps



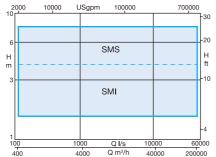
SMI (Axial-Flow), **SMS** (Mixed-Flow)

Tubular pump

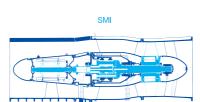
Horizontal tubular pump-units combining an axial-flow or mixed-flow pump and a dry-type electric motor in a single tube. Little noise and compact owing to the small water flow loss and the combined motor. Either connected directly to an electric motor or used with a reduction gear for slower rotation.

Applications

Water intake / Distribution / Drainage for water works, Water pumping / Drainage for agriculture, Industrial water / cooling water / drainage. Drainage for civil engineering work, etc.



Capacity	up to 210,000 m ³ /h / 924,000 USgpn
Total Head	2 to 8 m / 6.5 to 26 ft
Size	400 to 5,000 mm



Capacity	up to 210,000 m ³ /h / 924,000 USgpm
Total Head	2 to 8 m / 6.5 to 26 ft
Size	400 to 5,000 mm

SMIV (Axial-Flow), **SMSV**(Mixed-Flow)

Dry-type submersible pump

Large capacity submersible propeller pumps with low head capabilities. Offering high efficiency and superior performance with compact design and easy operation. Designed to meet the requirements for efficient handling of large capacity of water. In particular, for installation, maintenance and inspection in pits, "Auto In-Pipe Column Installation type" adopted because of the high reliability and rapid discharge connections.

Applications

Water pumping for agriculture, River drainage, Rain water drainage, Water intake / Drainage for sewage, etc.

SMV, SMRV

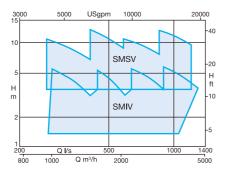
Large-size submersible motor pump

SMV is vertical tubular casing pump with submersible motor. Water-filled or oil-filled type motor is provided.

SMRV uses an oil-filled type submersible motor whose suction entry is located between motor and

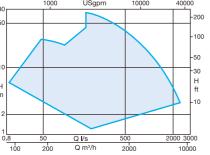
Applications

Water intake / Distribution / Drainage for water works, Water pumping / Drainage for agriculture, Industrial water / cooling water / drainage, Drainage for civil engineering work, etc.

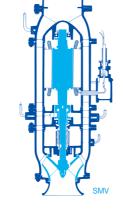












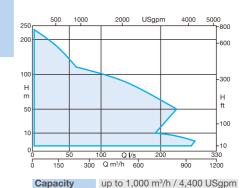
S/M

Dry-type submersible motor pump

Small light-weight and easy to handle. Best suited for discharging waste water at construction sites and draining water in buildings and factories. The motor is equipped with an auto-cut device, submersion detection device and protection device. The impeller is made of wear resistant materials.

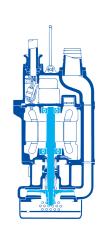
Applications

Waste water / Sludge drainage for civil engineering works, Drainage in factories, etc.



40 to 350 mm

Total Head up to 230 m



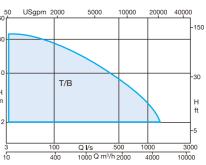
T/B, T/C, T/N

Submersible motor pump

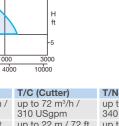
Wide ranges of impellers suited for all types of sewage and effluent, especially untreated sewage containing fibers, solid admixtures, sewage sludge, circulating sludge. Removable device for ease of maintenance and inspection also available.

Applications

Waste water / material drainage for sewage, Waste water / material drainage for construction facilities, Rain water drainage, etc.









F/TB

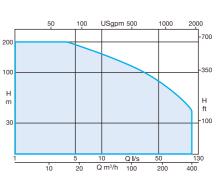
Submersible motor pump for deep well

Vertical or horizontal submersible motor pumps with radial or mixed flow impellers, multi-stage. Water sealed three-phase induction motor is highly reliable electrically and mechanically as submersible motor, and enables less trouble and safe operation.

Applications

Water intake / Distribution / Water supply for water works.

Water feed / Distribution for general industries, Water pumping for agriculture







F/VC, F/VD, F/UW, F/SP

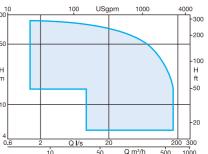
Submersible motor pump for shallow well

Water sealed three-phase induction motor is adopted for submersible motor. Suction entry of F/VC and F/UW is located at the bottom and that of F/VD and F/SP is between pump and motor.

Applications

Water intake / Distribution / Water supply for water works.

Water feed / Distribution for general industries, Water pumping for agriculture





	F/VC	F/VD
Capacity	up to 66 m ³ /h / 290 USgpm	up to 1,320
Total Head	up to 90 m / 295 ft	up to
Size	40 to 100 mm	65 to



o 300 m³/h / up to 420 m³/h / up to 660 m³/h / 20 USgpm 1,850 USgpm 2,900 USgpm o 70 m / 229 ft up to 46 m / 150 ft up to 46 m / 150 ft o 250 mm 125 to 250 mm 125 to 300 mm

Miscellaneous Pumps



K/LP, K/SLP2 (Stainless Steel)

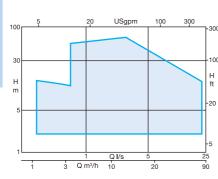
Line pump

Pump and 2-pole motor close coupled with common shaft. Line construction of suction entry and discharge fits in any position into a pipeline.

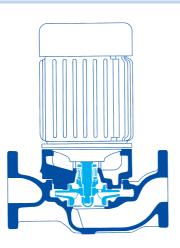
Applications

Water and hot water circulation in building facilities, Processes for various industries, General water feed,

Boosting for water works, etc.



Capacity	up to 84 m ³ /h / 370 USgpm
Total Head	up to 60 m / 20 ft
Temperature	up to 100°C / 210°F
Size	25 to 100 mm



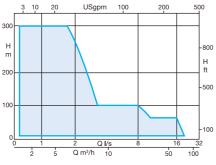
N/WR

Wesco pump

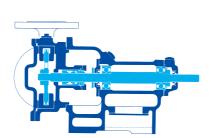
Specially-shaped impeller revolves at high speed in casing, makes the flow and absorbs up. Extremely small impeller clearance due to the use of a special method of fixing and special materials to assure high stability. Best suited for applications with small capacity and high head.

Applications

Water feed / pumping for general industries, Chemical liquid transfer, Various fuel oil transfer, High pressure boiler feed, High pressure washing, etc.



Capacity up to 72 m³/h / 310 USgpm Total Head up to 300 m / 980 ft
Temperature up to 90°C / 190°F 15 to 80 mm



NVS, NVD

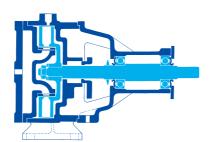
Vacuum pump

The rotating, water-sealed pump sucks and exhausts gas using the centrifugal force of the liquid. Continuous gas exhaustion is made without vibration and in complete safety even when water enters in the pump interior during operation.

Applications

Pump water priming, Gas exhaustion / Vacuum generation / Pressure-feeding for chemical industries





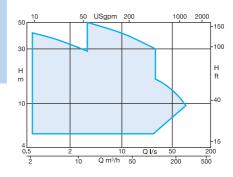
TE/O, TE/CO (Stainless Steel)

Self priming pump

No need for priming. Offering outstanding self priming performance and durability. Direct-connected motor is standard.

Applications

For industrial facilities, construction facilities, agriculture, waste water treatment, etc.





TE/O Capacity Total Head up to 40 m / 130 ft Temperature 0 to 40°C / 30 to 100°F 25 to 200 mm

TE/CO up to 300 m³/h / 1,320 USgpm up to 180 m³/h / 790 USgpm up to 50 m / 160 ft 0 to 40°C / 30 to 100°F 25 to 125 mm

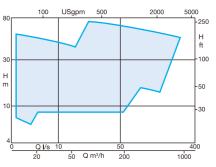
O/PS

Pulp pump

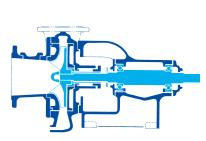
Suitable for pumping slurry and pulp stocks up to 5% consistency. The Impeller is Mixed flow type allowing the pump to be used for a wide range of applications.

Applications

Pulp liquid transfer for paper / pulp industries, Solid transfer / drainage for general industries, Fruit or cereal and water mixture transfer for food industries, etc.



Capacity up to 780 m³/h / 3,430 USgpm Total Head up to 70 m / 230 ft 50 to 250 mm



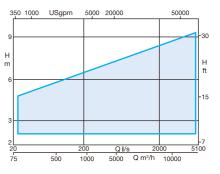
SNK

Screw Pump

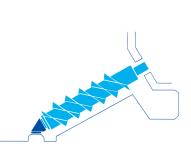
Suitable for pumping liquids containing small stones, other suspended solids or rags, pieces of wood or ropes, digested or activated sludge etc. The simple, rugged construction and the open screw trough facilitate maintenance and inspection.

Applications

Water pumping for treatment plants, Water pumping / Drainage for agriculture, Return sludge for sewage treatment plants, Waste water transfer, etc.



Capacity up to 18,000 m³/h / 79,250 USgpm up to 10 m / 32 ft 400 to 3.500 mm



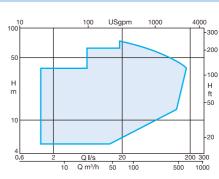
S/T

Vertical Volute Pump

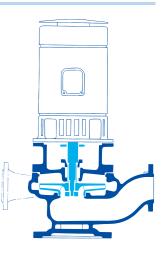
Easy-installation close-coupled construction. Size 40 to 100mm back pull-out structure facilitates ease of maintenance.

Applications

Boosting / Water feed / Water pumping for general industries, etc.



Capacity up to 600 m³/h / 2,640 USgpm Total Head up to 75 m / 240 ft
Temperature 0 to 80°C / 32 to 176°F 40 to 150 mm



Torishima's Mechanical Seals



Established in 1919 as a pump manufacturer, Torishima was able to draw on our expertise in pumping technology to pioneer the research and development of mechanical seals in Japan in 1949. In our long history we have had vast experience within many main industries and applications such as Power Generation and Desalination to name only a few. Besides proven seal designs to suit our own pump range, we are also capable of offering seal retro-fits and upgrades for other brands and manufacture for various types of equipment OEM's. As an integrated pump and seal manufacturer, we understand the relationship between both and the important role the seal plays. Our constantly developing sealing technology is a testament to our commitment to providing reliability focused products and solutions to our valued customers globally.

Mechanical Seal Applications

Field and Application			Pov Gene	wer ratio	n		Sea	water Desalination Water Works & Sewerage Rivers, Agriculture & Petrochemicals & General Indu										Indu	stry,	etc.									
Mechanical	Seal Type	Boiler feed pumps	Boiler circulating pumps	Condensate pumps	Cooling water pumps	High-pressure pumps	Water filtration pumps	Back wash pumps	Brine recirculation pumps	Brine blowdown pumps	Seawater intake pumps	Product water pumps	Water transmission & distribution pumps	Sewage treatment pumps	Stormwater drainage pumps	River drainage pumps	Agricultural pumps	Agricultural drainage pumps	Irrigation pumps	Process pumps	Feed water pumps	Cooling water pumps	Process pumps	Feed water pumps	Cooling water pumps	Electro-deposition paint pumps	Submersible pumps	Sand pumps	Hydraulic turbines
	LU1000				•		•	•	•	•		•	•	•			•	•	•	•	•	•	•	•	•				
Rotating Single Spring	HU2000 (Unbalanced type)				•		•	•		•		•	•				•		•	•	•	•	•	•	•				
Component Seals	HB2000 (Balanced type)	•	•	•	•	•	•	•		•		•	•				•		•	•	•	•	•	•	•				
	LD1000 (Double seal)													•												•	•		
Rotating	MU2000 (Unbalanced type)				•		•	•	•	•		•	•						•	•	•	•	•	•	•				
Multi-Spring Component	MB2000 (Balanced type)			•	•		•	•	•	•		•	•						•	•	•	•	•	•	•				
Seals	MT2700 (Balanced type)	•	•			•																							
Stationary Multi-Spring	MB2500 (Balanced type)	•	•			•															•			•					
Component Seals	MT4100 (Balanced type)				•				•		•			•	•	•	•	•	•			•	•		•				
	MB2704CN (Inside rotating type)	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•				
	MB2704CZ (Inside rotating type, with pumping ring)	•	•																										
Cartridge	MB8500CN (Stationary inside type)	•	•			•						•	•				•		•				•						
Seals	MB8500CZ (Stationary inside type, with pumping ring)	•	•																		•			•					
	MB2400CN (Outside rotating type)				•	•	•	•	•	•		•	•				•		•	•	•		•	•					
	MB2504CZ (Stationary inside type, with pumping ring)	•	•			•															•			•					
	MB2901 (Stationary balanced type, non-flushing)				•		•	•	•	•	•	•	•	•	•	•	•	•	•			•	•		•				
Split Seals	MU2922 (Stationary balanced type, dry running application)														•	•	•	•											
	MT9200 (Stationary balanced type, dry running application)															•	•	•	•				•						
Specialized	For hydraulic turbines																												•
Seals	For submersible sand pumps																											•	



Torishima's Service Solutions

As a premier engineered equipment supplier, Torishima is committed to provide the highest quality aftermarket service. Our innovative solutions can enhance performance and increase the life span of pumps, other equipment and plants. This allows operators to maximize efficiency, reduce maintenance costs and conserve energy.

Installation & Field Test

Torishima provides field engineering service wherever needed to supervise pump installation work and equipment commissioning, ensuring the pumping equipment can meet customer expectations.

Maintenance, Overhaul, Operator Training

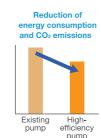
Torishima offers targeted advice after performing a full maintenance inspection of the entire pump installation, performing necessary maintenance, and diagnosing whether the facility is being operated under the optimal conditions. When pumping equipment breaks down, our experienced engineers determine the basic cause through a full analysis and replace broken parts to ensure rapid restoration. In addition, we provide hands-on guidance and training to plant operators.

Solution Provider

To improve your plant's productivity, Torishima offers longer reliable and high-efficiency pumps. In addition to servicing our own units, we restore, repair, improve and upgrade even for pumps of other manufacturers. Using the most advanced technologies, we offer products that provide you with the highest efficiency and highest possible performance.

Energy Saving Operating cost and CO₂ emissions are reduced by upgrading to a more reliable and higher-efficiency pump.









*REDU is a registration of trademark of TORISHIMA

What's REDU?

Torishima has the ability to combine field service engineering and product design technology. This results in our engineers being able to provide advice on improved design and the upgrade of in-site pumping equipment and other rotating equipment.



After upgrading

