

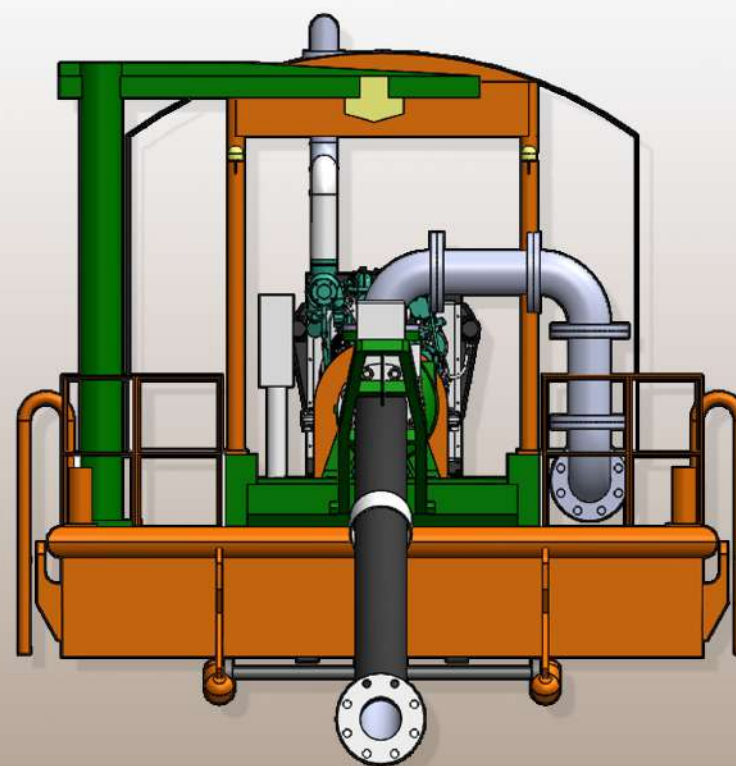


PT Torishima Pump Mfg Indonesia

Head Office & Factory : Jl. Rawa Sumur Timur No.1
Pulogadung Industrial Estate - Jakarta 13930
T. +62 21 460 6448 - F. +62 21 460 3964
E. marketing@torishima.co.id
www.torishima.co.id

TDX

Torishima Dewatering Pumps



INTRODUCTION

Torishima Pumps have TKDN certification
(Domestic Component Level) according
to Government value standard.



Since 1984 PT Torishima Guna Indonesia has established strong sales and distribution network by building dealership and other sales channels, which in turn can serve all our customers needs. By using state-of-the-art manufacturing facilities, we are capable of producing world-class industrial pump product ranges including End Suction, Multi Stage High Pressure, Double Suction and Vertical Mixed Flow Pumps.

Inside Factory

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

Assembly Facilities

We assemble with base frame, flushing system, cooling system and controller. We built complete system of Dewatering pump set, fire fighting packages and booster set.

Test Pump Facility

The facility is equipped with PLC system and control panel, connected to instrument and control valve installed on the testing facility. Pump testing process can be done automatically and all measurement data can be directly entered into pump data sheet required by customers. It will create a quick and efficient performance test process.



- Pump Test Capacity : Up to 7.200 M /Hr
- Pressure : Up to 200 bar (3000 psi)
- Electricity : Up to 1250 kVA
- Hydrostatic Test : Pressure Up to 700 bar (10.000 psi)
(Chart recorder available)
- Dynamic Balancing Test : Up to 3.0 Tons

>>>> Torishima Dewatering Pump

TDX Model



Torishima TDX model is dewatering pump made with cast iron and duplex stainless steel body. Torishima TDX pump can stand the most demanding heavy duty conditions found in construction, aggregate and mining applications. Completed with pump and diesel engine driver or electric motor as option, mounted on a pontoon. To fulfill the needs, we provide 3 types of pump to run our dewatering system.

Benefits of our pumps:

- Proven reliability
- High efficiency designs ensure lowest operating cost
- Robust design allows for long system life with minimal maintenance
- Optimized total cost of ownership
- Stable Operation
- Handling Various Liquids and Temperature
- Excellent Parts Interchangeability
- Simple Maintenance

Applications

Mining Slurry Applications

Hardrock Mining / Industrial Commodities
Dig, Concentrate, Process

- Bauxite / Alumina
- Coal
- Copper
- Diamonds
- Phosphate
- Sand and Gravel
- Dredging
- Gold
- Iron Ore
- Metal Refineries
- Titanium
- Tunneling
- Zinc
- Oil Sands
- Nickel

TORISHIMA DEWATERING PUMP

Torishima dewatering pump is designed for underground and surface mining dewatering, as well as general purpose dewatering.

Features

- Back Pull Out Design
- Closed , Radial Impeller Fitted with Protective Wear Ring
- Outdoor Design
- High Efficiency 3D Impeller
- Single Acting Mechanical Seal
- Low NPSH and Wide Application Range

Mining Non Slurry Applications

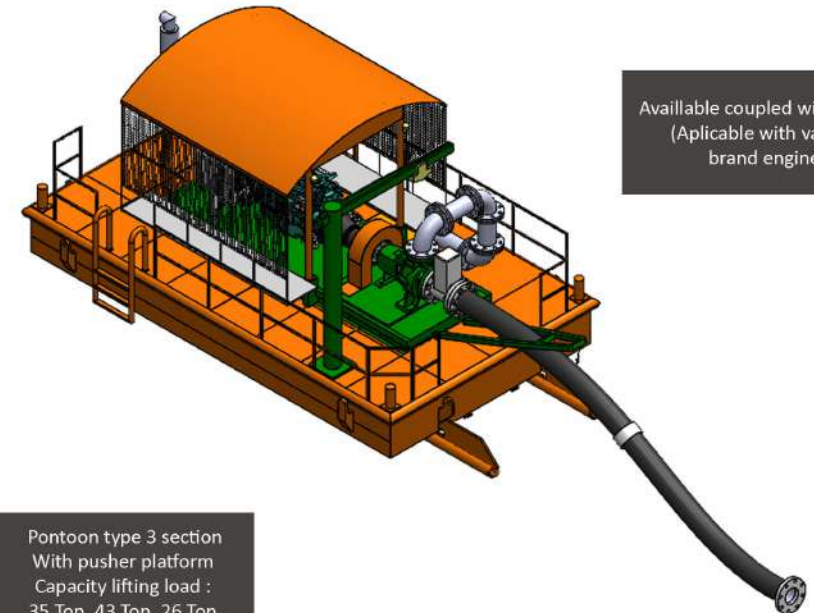
- Auxiliary Circuits
- Chemical Treatment
- Dewatering
- Water Supply
- Fire Fighting System

Detail Information

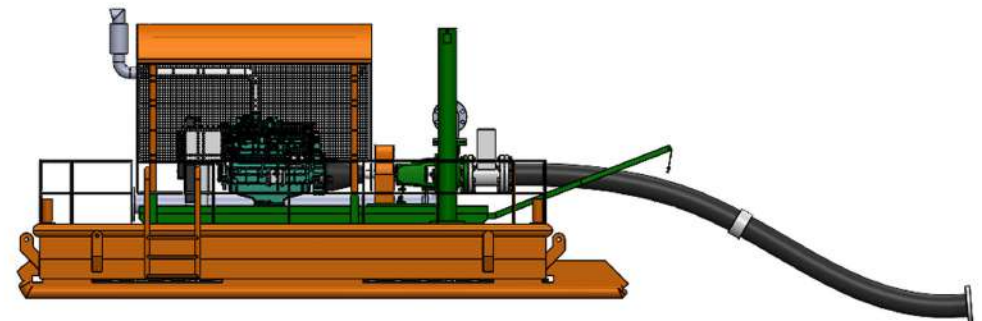
TDX 100			TDX 150			TDX 200		
Hydarulic Data (Duty Point)								
Flow	Max	466.7 m³/h		Max	1125 m³/h		Max	1300m³/h
	Rated	300 m³/h		Rated	600 m³/h		Rated	830 m³/h
	Min	115.45 m³/h		Min	275 m³/h		Min	323 m³/h
Head	Max	76.1 mWC		Max	105 mWC		Max	144 mWC
	Rated	70 mWC		Rated	100 mWC		Rated	130 mWC
	Min	57.11 mWC		Min	71.63 mWC		Min	99 mWC
Impeller	Max	429 mm		Max	537 mm		Max	537 mm
	Duty	377 mm		Duty	537 mm		Duty	537 mm
	Min	343 mm		Min	430 mm		Min	441 mm
NPSHr Duty (m)	2.9 m		4.8 m		5.17 m			
Efficiency Duty (%)	77%		76%		79%			
Shaft Power on Duty (kW)	74 kW		215 kW		372 kW			
Impeller Type	Closed			Closed			Closed	
Shaft Sealing	Gland Packing			Gland Packing			Gland Packing	
Bearing Lubrication	Oil Lube			Oil Lube			Oil Lube	
Pressure Rating	10	Bar	16	Bar	16	Bar		
Min. Fluid Temperature	-50	°C	-50	°C	-50	°C		
Max. Fluid Temperature	80	°C	80	°C	80	°C		
Max. Solid Size	21	Mm	33	Mm	37	Mm		
Max. Slurry Concentration (ppm)	200	ppm	200	ppm	200	ppm		
Dimensions								
Suction Port	DN200 JIS 20K RF			DN250 JIS 20K RF			DN250 JIS 20K RF	
Discharge Port	DN150 JIS 20K RF			DN200 JIS 20K RF			DN200 JIS 20K RF	
Materials								
Casing	Duplex Stainless Steel (1.4460)			Duplex Stainless Steel (1.4460)			Duplex Stainless Steel (1.4460)	
Casing Cover	Duplex Stainless Steel (1.4460)			Duplex Stainless Steel (1.4460)			Duplex Stainless Steel (1.4460)	
Impeller	Duplex Stainless Steel (1.4460)			Duplex Stainless Steel (1.4460)			Duplex Stainless Steel (1.4460)	
Shaft	Duplex Stainless Steel (1.4460)			Duplex Stainless Steel (1.4460)			Duplex Stainless Steel (1.4460)	

*) Available for another pump size
*) metres of water column (mWC)

Dewatering Pumpset Production with variant engine drive

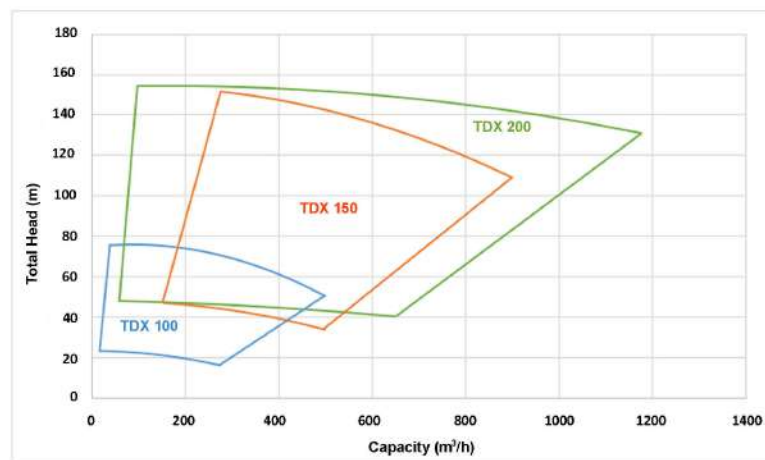


Pontoon type 3 section
With pusher platform
Capacity lifting load :
35 Ton, 43 Ton, 26 Ton

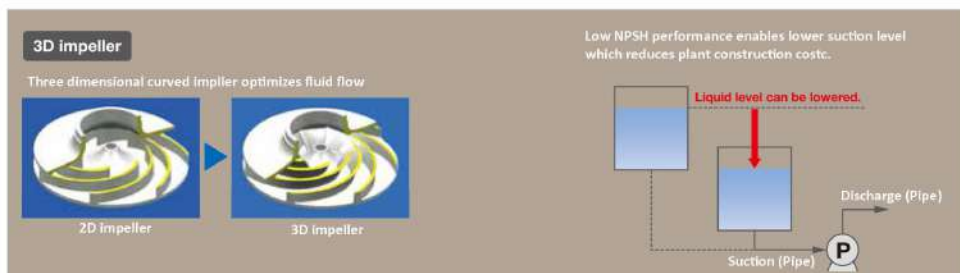
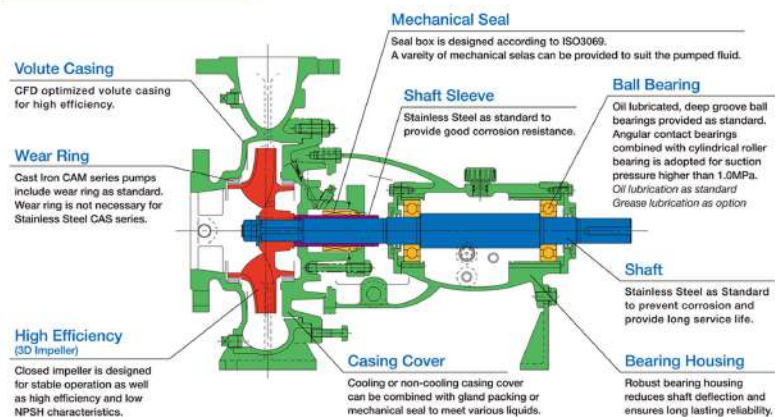


*) Custom pontoon available as request

Pump Curve Information



Pump Design Features



Engine Information

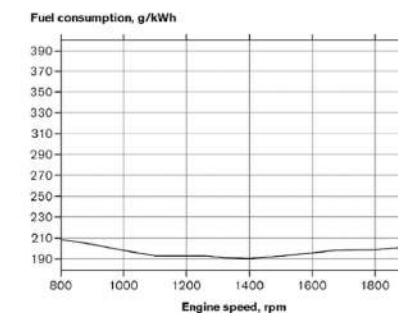
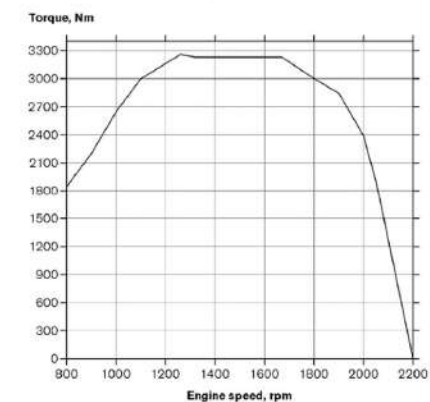
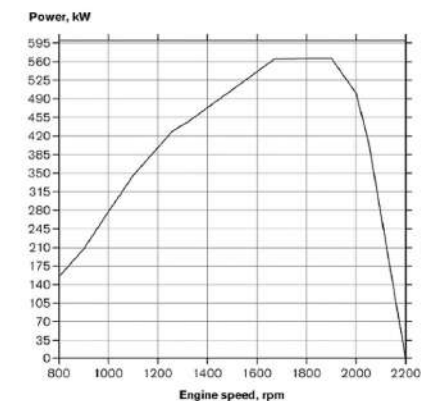
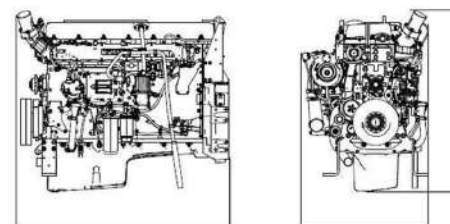
Engine Description	
No of Cylinders	In-line 6
Working Principle	4-stroke
Displacement	16,12 litres
Bore x stroke	144 x 165 mm
Compression ratio	17 : 1
Weight	1437 kg (excl. Oil and coolant)
Piston speed at 1500 rpm	
Piston speed at 1800 rpm	
Camshaft	
Pistons	
Connection rods	
Crankshaft	
Oil capacity	36 litres

Features

- Proven and straight-forward design
- High power and torque already at low engine speed
- Compact, simple installation and easy to service



*) reference only



*) Available for another brand engine