



PT Torishima Pump Mfg Indonesia

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**Model
CEN, CPC, CPR,
CAM, CDM**

Torishima - Fire Pumps

FIRE PUMP CATALOGUE





FOREWORD

Fire hydrant pump used to protect lives and properties against fire by supplying an adequate water supply to automatic sprinklers or standpipe system, meet building codes (such as NFPA 20) and insurances requirement. The pump should operate irrespective of any damage it may cause to itself and must be capable to operate not less than 150% of rated capacity at not less than 65% of total rated head.

Fire hydrant pump can be motor driven or diesel driven or even both on parallel configuration. TORISHIMA end-suction heavy duty process pump is most obvious choice for such requirement.

WHY CHOOSE US?

As an ISO 9001 registered company, TORISHIMA are committed to quality. Along with our outstanding customer service, TORISHIMA will keep your fire pump system at peak performance to years to come.

with good performance and material, we provide solutions for fire fighting pump systems according to your needs.

TORISHIMA FIRE PUMP

Torishima fire pumps with appropriate fittings for providing water supply to fire protection systems in buildings, plants, and yards.

FEATURES

Non overload design to ensure stable performance for all applications.

Corrosion resistant materials used on the rotating parts.

Hydraulically balanced impeller extends bearing life and assures smoother operation.

Fully compliance to NFPA-20.

APPLICATION

- Electric Fire Pump
- Diesel Fire Pump

COMPETITIVE ADVANTAGES

Easy removal and maintenance, BPO (Back Pull Out) system allows all rotating elements to be removed without disconnecting suction and discharge pipe work.

Top centreline discharge, foot support under casing for maximum resistance to misalignment and distortion from pipe loads.

Flow rate capacity 500 up to 3000 USGPM.

Working pressure up to 320 psi.

TORISHIMA

TORISHIMA PUMP MANUFACTURING INDONESIA have a comprehensive understanding of Fire Fighting technical requirements and applications for pumps and pumping system.

TORISHIMA PUMP MANUFACTURING INDONESIA SUPPORTS NATIONAL INDUSTRY IN MANY WAYS:

- Engineering support for design and planning
- New construction projects for fire fighting pumping applications, upgrades and obsolescence replacement
- Attendance on-site to oversee installation and to commission equipment
- Technical assistance for any kind of pump technical issue on site.



TORISHIMA FIRE PUMP

PRODUCT FEATURES

Design

Non Overload design to ensure stable performance for all applications

Installation

Axially split casing allows the easy removal of the top casing for inspection and service

Equipment

Elastic coupling with misalignment compensator for electric pump and universal coupling

Power Supply

Non-listed of engine driver, wide range of power 73kW - 295 kW, available with electric motor and diesel engine

Maintenance

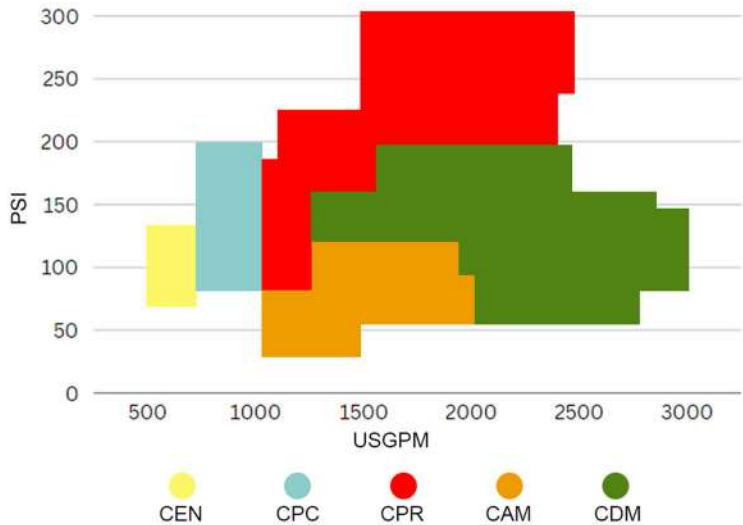
Safe and easy installation and maintenance

Versality

Product configurations available on request, depending on installation conditions

We have strictly selected the pumps that are used for fire fighting applications compliance to NFPA 20 standard

SELECTION CHART



CEN

Q range : 500 - 1125 USGPM
H max : 145 PSI
Speed : 2900 RPM
Pressure : up to 10 bar
Casing : Cast Iron
Impeller : Iron, Bronze
Shaft : Stainless Steel
Seal : Gland Packing

CPC

Q range : 500 - 1125 USGPM
H max : 200 PSI
Speed : 3000 RPM
Pressure : up to 16 (25) bar
Casing : Cast Iron
Impeller : Iron / FCD
Shaft : Stainless Steel
Seal : Gland Packing

CPR

Q range : 500 - 3000 USGPM
H max : 320 PSI
Speed : 3000 RPM
Pressure : up to 40 bar
Casing : Cast Iron
Impeller : Iron, Bronze
Shaft : Stainless Steel
Seal : Gland Packing

CAM

Q range : 1320 - 5200 USGPM
H max : 120 PSI
Speed : 1500 RPM
Pressure : up to 10 bar
Casing : Cast Iron
Impeller : Iron
Shaft : Stainless Steel
Seal : Gland Packing

CDM

Q range : 660 - 13208 USGPM
H max : 200 PSI
Speed : 1500 RPM
Pressure : up to 22 bar
Casing : Cast Iron
Impeller : Iron, Bronze
Shaft : Stainless Steel
Seal : Gland Packing



SELECTION DATA

Type	Capacity	Size		Rated Net Pressure Range		Approximate	Power
	Rated	Inlet, inch	Outlet, inch	Min	Max	Speed	Max
	GPM			Psi		Rpm	kW
CEN 125x100-250	500	5	4	95	145	2900	65
CPC 100-32G	750	5	4	140	200	3000	125
CPR 150-250	1000	8	6	90	130	3000	110
CPR 150-315	1250	8	6	160	200	3000	200
CPR 200-400	1500	10	8	270	320	3000	420
	2000			240	320		520
CAM 150-390	1000	8	6	40	90	1500	70
CAM 150-500	1250	8	6	90	120	1500	125
	1500	8	6	80	120	1500	150
CAM 200-390	2000	10	8	50	75	1500	120
CDM 300x200	2500	12	8	84	140	1500	250
CDM 250x150	1250	10	8	110	160	1500	180
	2000			170	200		350
CDM 350x250	2500	14	10	60	90	1000	180
	3000			100	145	1500	320

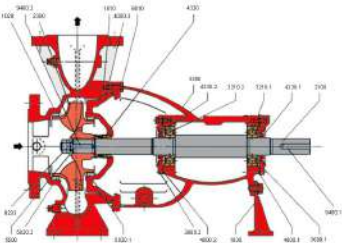
SECTIONAL VIEW

End Suction Pump

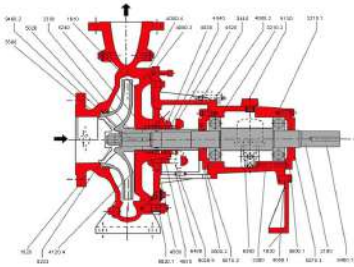
Double Suction Pump

SECTIONAL VIEW

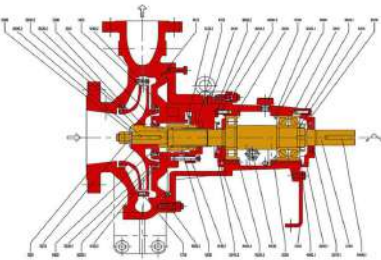
CAM



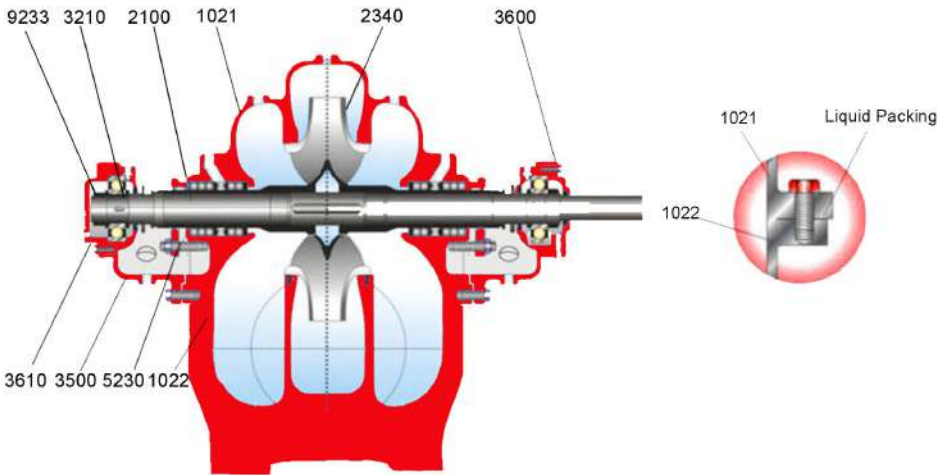
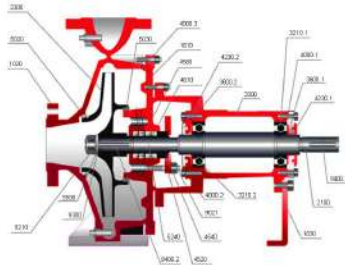
CPC



CAM



CEN



No.	Designation	No.	Designation
1020	Volute casing	4710	Seal sleeve
1610	Casing cover	5020	Casing wear ring
1710	Diffuser	5030	Impeller wearing
1830	Support foot	5070.1/2	Deflector
2100	Shaft	5090	Adjust Ring
2300	Impeller	5240	Packing sleeve
3210.1/2	Deep groove ball bearing	5241	Seal sleeve
3220	Roller Bearing	5500	Washer
3300	Bearing housing	6380	Constant level oiler
3440	Bearing bracket lantern	6430	Oil Level Gauge
3600.1/2	Bearing	6480	Drip plate
4000.1/2/3/4	Flat gasket	9010	Hex bolt
4113	Vortex gasket	9020.1/9	Stud bolt
4120.1/4	O-ring	9130	Plug
4230.1	Mechanical seal	9140.2	Hexagon socket head
4230.2	Labyrinth ring	9210	Fine hexagonal nut
4330	Shaft box gland	9220	Impeller nut
4520	Gland	9230	Bearing nut
4540	Gland bushing	9233	Lock nut
4560	Throat bushing	9300	Spring washer
4580	Lantern ring	9310	Washer
4610	Gland packing	9320.1/2	Snap ring
4630	Apron	9400.1/2	Key

No.	Designation
1021	Volute casing, Upper half
1022	Casing cover, Lower half
2100	Shaft
2340	Impeller
3210	Ball Bearing
3500	Bearing Bracket
3600	Bearing Cover
3610	End Cover
5230	Shaft Sleeve
9233	Hard Lock Nut