



Pumps and Pumping Systems

Overview Brochure

Water Management, Building Services and Industry segments

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Bhubaneshwar

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*Technical matter subject to change

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02 Introduction 03







Wilo Branches/Production Sites

production plantsubsidiary

WILO SE, Dortmund plant/Germany
WILO SE, Oschersleben plant/Germany
WILO SE, Holf plant/Germany
WILO EMU Anlagenbau GmbH, Roth/Germany*
Pompes Salmson S. A. A., Laval plant/France
TEK S. r. I., Bari/İtaly*
WILO Pumps Ltd., Limerick/İreland

Circulating Pumps Ltd., Kings Lynn/Great Britain WILO USA LLC, Thomasville plant, Georgia/USA WILO China Ltd., Beijing plant/China WILO ELEC China Ltd., Qinhuangdao/China WILO Pumps Ltd., Busan plant/Korea Mather & Platt Pumps Ltd., Pune plant/India Mather & Platt Pumps Ltd., Kolhapur plant/India Mather & Platt Pumps Ltd., Kolkata plant/India

SUBSIDIARIES

With more than 60 subsidiaries, Wilo is at home all over the world



Mather and Platt Pumps Ltd.

Mather and Platt started its Indian operation in the year 1913 from Kolkata. Since then we have been significant in fulfilling the need of water supply for more than 100 years in India to various business segments like building services, water management and industries. Our Chinchwad Works operations in Pune, Maharashtra started in the year 1959.

Today, we are the manufacturers of the various types of centrifugal pumps and pumping systems.

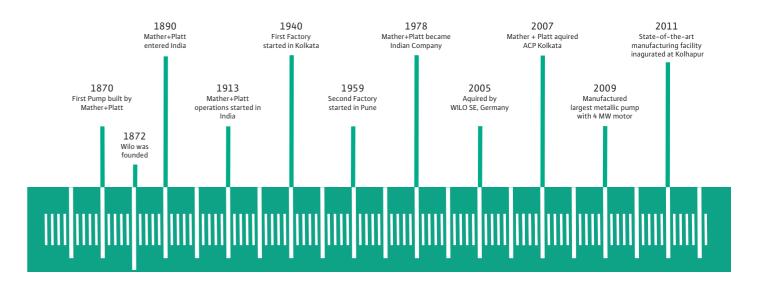
Mather and Platt Pumps Limited became a part of WILO SE in the year 2005.

A new state of art manufacturing facility at Kolhapur, approximately 260km from Pune, and covering over 6000 sq. meters was inaugurated in the year 2011, to manufacture the latest high efficiency products of Wilo India.

The Pune and Kolhapur plants have acquired the ISO 9001, ISO 14001 and OSHAS 18001 Certifications and all our products are CE certified. M+P is the manufactures of one of the largest metallic vertical turbine pump in Asia supplied with 4 MW motor.

A Green feather in the cap.....

In April 2013, our Kolhapur plant received a **Gold Certification** from the Indian Green Building Council (IGBC).



Water is life.



Sustainability. Today's ideas, tomorrow's standard solutions.

Not much is required for highly efficient environmental protection. Just good ideas. Such as the idea for the high-efficiency pump which represented a milestone achievement in 2001 and the performance data which defined today's statutory limits. It requires up to 90 % less electricity than old, unregulated standard pumps.

The idea is only a good one however, if it pays off in the long term. Which is why Wilo high-efficiency pumps not only save energy, they save money too. Off every electricity bill. A small step for each one of us, but a big step for us all. Towards a better future for generations to come.



Quality. This is what matters.

Deviations of 70 micrometres – a hair's breadth – are just visible to the naked eye. This is still too much tolerance for real quality and this is why our quality assurance system combines the latest measuring methods with extensive testing procedures. These include, for example, an endurance test in which our pumps run non-stop under full load. This test and the most demanding eagle-eyed technicians mean

that even the smallest of flaws do not go undetected. Only products that pass our tests with flying colours are put to use in your company. Quality means that we question every aspect of our products and actions, so that you are left in peace.



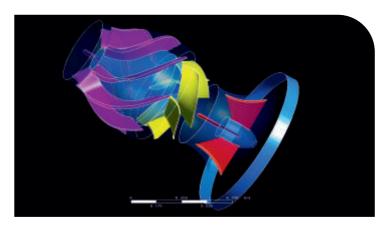
Service. Wherever you need us.

Flexibility is one of the most important qualities in the business world of today. Not only for the product range or service,

but also spatially. Our specialists for development, quality assurance and production work in close cooperation with you when integrating our pumps in your production process. That begins with individual consulting during the planning stage, and goes far beyond installation and connection. A well-trained and worldwide active service department is another essential feature of our partnership philosophy. We're only happy when your business runs as well as our pumps.







We have state-of-the-art Advanced Research Technology Education Centre (ARTEC) facility at Pune where continuos research, developments/upgradation of products and services are

Following key activities are carried out at this Centre:-

- → Geometric modeling
- → Computational fluid dynamics (CFD)
- → Finite element analysis (FE)
- → Sump model & intake sump analysis



Applications

Building services commercial

Pumps and pump systems for heating, air conditioning, cooling, pressure boosting, water supply and sewage disposal in residential complex, administrative and commercial buildings.





Building services residential

Pumps and pump systems for heating, pressure boosting, water supply and sewage disposal in domestic households.



Pump and pump systems for water supply, sewage disposal and sewage treatment in municipal buildings and flood control.





General industry

Pump and pump systems for cooling water and heating systems, raw water intake, water and fire-extinguishing water supply and for water purification and industrial waste water.

Applications

Oil and gas

Pumps and pump systems for refineries , petrochemicals , PX-PTA plants, oil depots pipeline projects, oil exploration – on shore/off shore, fertilizers, ports and jetty for oil companies & cargo.





Energy

Pumps and pump systems for thermal energy coal base, nuclear energy, gas based energy, public, private and contractors, hydel power plants, solar power plants, cooling systems for wind power plants and captive power plants for 100% grid consumption.

All turnkey fire fighting systems along with the following products like deluge / valves / alarm, sprayers, projectors, control panels (conventional), control panels for foam and gas systems, control valves for foam and gas system, water / foam monitors and hydrant accessories.





After sales service

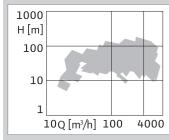
Supply of spares and installation support provided to all segments.

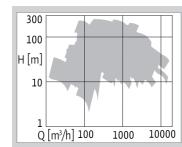


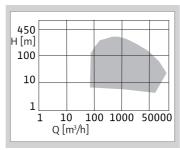




Product	Standard Horizontal Split Case Pump	Engineered Horizontal Split Case Pump	Vertical Turbine Pump
Range	Q _{max} : 3400 m³/hr	Q _{max} : 18000 m ³ /hr	Q _{max} : 50000 m³/hr
J	H _{max} : 235 m	H _{max} : 270 m	H _{max} : 450 m
	Temperature: up to 120°C; Higher on request	Temperature: up to 120°C; Higher on request	Temperature: up to 80°C; Higher on request
	Delivery Size: DN 50 – DN 400	Delivery Size: DN 50 - DN 1200	Delivery Size: DN 100 - DN 2000
Product/ Design Features	 Mounting: Inline horizontal Stages: Single/ double, single/ double suction Impellers shaft with sleeves Grease lubricated anti-friction bearing Mechanical seal/ gland packing 	 Mounting: Inline horizontal Stages: One/two/three stage single/double suction impellers Grease/Oil lubricated antifriction bearings Mechanical seal/gland packing 	 Vertical wet pit Stages: Single / multistage Closed impeller Above or below floor discharge Pumped medium lubricated line shaft bearings Non pull out bowl/rotating element Antifriction bearings
Optional Features	→ Mounting: Vertical	 Mounting: Centre line/vertical Drive connection: direct/cardan shaft bush bearing Staggered vane design for fan pump application Special suction/delivery orientation* instrumentation & controls 	 Caission/cannister construction Tilted pad thrust bearings with cooling arrangement, semi-open impellers Oil/external water lubricated line shaft bearings Pull out rotating element, instrumentation & controls
Material of Construction	 → Casing - Cast Iron → Impeller - Cast Iron / Bronze/ → Stainless Steel 	→ Cast Iron, Bronze, Ductile Iron, Cast Steel, Ni Resist, Stainless Steel, Duplex Stainless Steel & special alloys	→ Cast Iron, Bronze, Ductile Iron, Mild Steel, Cast Steel, Ni Resist, Stainless Steel, Duplex Stainless Steel & special alloys
Applications	 → Water supply / general industry → Building service / fire fighting → Spray irrigation / district heating 	 → Water supply/general industry → Ports & docks/fire fighting → Irrigation/marine desalination 	 Water supply/irrigation Cooling water for power plant Flood control/condensate extraction general industry/fire fighting
Prime Movers	→ Electric motors→ Diesel engines	Electric motors/ diesel engines steam turbine with gear box or cardan shaft	 Electric motors Diesel engines via right angle gear bo Steam turbine via right angle gear bo
Range of application (50 Hz)	1000 H[m] 100	300 100 H [m]	450 H [m] 100 10







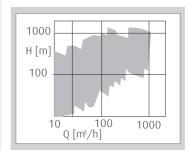


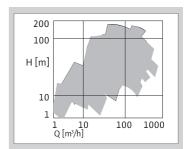


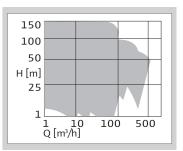


Product	Multistage Ring Section Pump	End Suction Pump as per ISO 2858	Norm Pump as per EN733
Range	Q _{max} : 1000 m³/hr	Q _{max} : 750 m ³ /hr	Q _{max} : 600 m³/hr
	H _{max} : 1800 m	H _{max} : 170 m	H _{max} : 150 m
	Temperature: up to 160°C	Temperature: up to 120°C	Temperature: up to 120°C
	Delivery Size: DN 32 - DN 250	Delivery Size: DN 32 - DN 150	Delivery Size: DN 32 - DN 150
Product/ Design Features	 Mounting: Horizontal Stages: 3 to 15 Radial flow impellers with vane diffusers mechanical seal/gland packing Grease lubricated antifriction bearings 	 End suction top discharge Mounting: Horizontal Stage: Single Back pullout design Closed impeller Mechanical seal/gland packing Grease lubricated antifriction bearings 	 End suction top discharge Mounting: Horizontal Stage: Single Back pullout design Closed impeller Mechanical seal/gland packing Grease lubricated antifriction bearings
Optional Features	 Mounting: Centreline/vertical Multi-outlet design Balance valve design for axial thrust bush bearing/roller bearing 	 → Mounting: Centreline/vertical → Semi-open impeller → Oil lubricated antifriction bearings 	
Material of Construction	 → Cast Iron, Bronze, Ductile Iron, → Cast Steel, Ni Resist, Stainless Steel, Duplex Stainless Steel & special alloys 	 → Cast Iron, Bronze, Ductile Iron, → Cast Steel, Ni Resist, Stainless Steel, → Duplex Stainless Steel & special alloys 	→ Casing – Cast Iron→ Impeller – Cast Iron / Bronze
Applications	 Mine dewatering Descaling in steel mills Boiler feed application Reverse osmosis for desalination plants water supply / general industry Fire fighting 	 → General industry → Chemical & process → Water supply → Building service / fire fighting → Irrigation / sprinkler system 	 Building service Sprinkler systems Water supply General industry
Prime Movers	 → Electric motors → Diesel engines → Steam turbine 	→ Electric motors→ Diesel engines	→ Electric motors

Range of application (50 Hz)







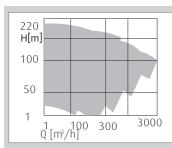


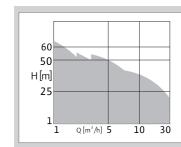


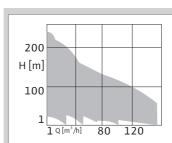


	End Suction Pump Engineered/Special	Horizontal Monobloc Pump	Vertical Inline Pump
Range	Q _{max} : 3400 m ³ /hr	Q _{max} : 25 m³/hr	Q _{max} : 155 m³/hr
	H _{max} : 220 m	H _{max} : 70 m	H _{max} : 235 m
	Temperature: up to 120°C	Temperature: up to 110°C	Temperature: up to 100°C
	Delivery Size: DN 50 - DN 400	Delivery Size: DN 25 - DN 32	Delivery Size: DN 25 - DN 100
Product/ Design Features	 End suction top discharge Mounting: Horizontal Stage: Single Back pullout design Closed impeller Mechanical seal/gland packing grease/oil lubricated antifriction bearings 	 Mounting: horizontal Stages: 2 to 7 Corrosion proof wetted components mechanical seal with EPDM/ Viton elastomers 	 Mounting: Vertical Inline Stages: 2 to 24 Antifriction Bearings Corrosion proof wetted components Mechanical seal with EPDM/ Viton elastomers
Optional Features	 Mounting: Centreline/vertical Delivery flange orientation change possible Bush bearing 	 → Self priming models → Electronic control motor → Single & three phase 	 Connection: Oval / Victaulic VFD on motor Single & Three phase motors High efficiency motors Flameproof motors
Material of Construction	 Cast Iron, Bronze, Ductile Iron, Cast Steel, Ni Resist, Stainless Steel, Duplex Stainless Steel & spcial alloys 	 → Casing – SS (304/316L) /Cast Iron → Impeller – SS (304/316L) 	 → Casing - SS (304/316L) /Cast → Iron Impeller - SS (304/316L)
Applications	 Water supply/general industry Paper & pulp/building service Fire fighting/irrigation/sprinkler system Treated effluent 	 → Water supply → Pressure boosting → Industrial washing → Sprinkling systems → General industry 	 Water Supply Pressure Boosting Jockey pump in firefighting Boiler feed, Industrial Washing Sprinkling Systems General Industry
Prime Movers	→ Electric motors→ Diesel engines	→ Electric motors	→ Electric motors

(50 Hz)













Product	Single Pump Booster	Multi-Pump Booster	Circulator
Range	Q _{max} : 25 m³/hr	Q _{max} : 800 m³/hr	Q _{max} : 100 m³/hr
	H _{max} : 68 m	H _{max} : 160 m	H _{max} : 18 m
	Temperature: up to 110°C	Temperature: up to 120°C	Temperature: up to 110°C
	Delivery Size: DN 25 – DN 32	Delivery Size: DN 32 - DN 100	Delivery Size: DN 25 - DN 125
Product/ Design Features	 Pressure Boosting systems with Single pump in Horizontal or vertical inline design Corrosion proof wetted parts 	 Multi-pump pressure boosting system from two up to eight pumps in stainless steel construction, Fitted on a common baseplate with vibration dampers 	 → Glandless circulation pump with threaded connection or flange connection, EC motor and automatic power adjustment. → Single/three phase
Optional Features	 → Fitted with Fluid Control or pressurised tanks & with float switch/pressure switch → Option of inline shower 	 Horizontal / vertical pumps Variety of panels with floating VFD/ with dedicated VFD/ Without VFD, with PLC/without PLC, panels with customized requirements 	 Pre-selectable speed stages Full motor protection Combination flanges PN6/PN 10 thermal insulation shells as standard for heating applications Red-button technology for easy operation
Material of Construction	→ Casing – SS (304/316L) /Cast Iron → Impeller – SS (304/316L) / Cast Iron	→ Casing – SS (304/316L) /Cast Iron → Impeller – SS (304/316L)	→ Engineering Plastic→ Grey Cast Iron
Applications	 Pressure Boosting for Residential Buildings Bathroom Shower panels 	→ Pressure boosting for commercial complexes, hotels, industries, etc.	→ Electric motors
Prime Movers	→ Electric motors	→ Electric motors	→ Electric motors

Range of application (50 Hz)







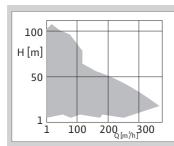


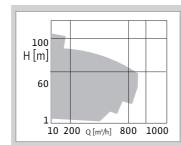


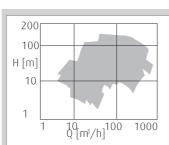


Product	Close Coupled Horizontal Pump	Close Coupled Inline Vertical Pump	Vertical Sump Pump
Range	Q _{max} : 360 m ³ /hr	Q _{max} : 900 m ³ /hr	Q _{max} : 750 m ³ /hr
	H _{max} : 105 m	H _{max} : 110 m	H _{max} : 220 m
	Temperature: up to 140°C	Temperature: up to 140°C	Temperature: up to 80°C
	Delivery Size: DN 32 – DN 100	Delivery Size: DN 32 - DN 250	Delivery Size: DN 32 – DN 200
Product/ Design Features	 Low pressure end suction top discharge pump Mounting: Horizontal Stage: Single/ close coupled design KTL coating for corrossion protection 3 phase standard iec ip 55 motors Mechanical seal 	 Low Pressure Inline pump Stage: Single Stage Close coupled design KTL Coating for Corrossion Protection 3 Phase standard IEC IP 55 motors Mechanical seal 	 Vertical wet pit volute pump with Dry motor Stage: Single Closed impeller Oil lubricated bearing arrangemer antifriction bearing Mechanical seal/gland packing
Optional Features	→ High efficiency motors→ Flameproof motors	 VFD on motor High efficiency motors Flameproof motors Twin head pumps 	
Material of Construction	 → Casing – Cast Iron → Impeller – Cast Iron / Bronze 	 → Casing - Cast Iron → Impeller - Cast Iron / Bronze 	 → Cast Iron, Bronze, Ductile Iron, → Cast Steel, Ni Resist, Stainless Steel, Duplex Stainless Steel & special alloys
Applications	 Building service Hot water Water glycol mixture Cold water without abrasive Substances 	 Building Service Hot water Water Glycol mixture Cold water without abrasive substances 	 → Emergency oil pump → Dewatering
Prime Movers	→ Electric motors	→ Electric motors	→ Electric motors
Range of application	100		200

(50 Hz)





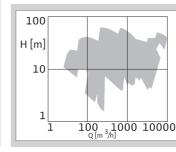


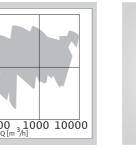






Q _{max} : 8000 m³/hr H _{max} : 100 m Temperature: up to 60°C Delivery Size: DN 32 – DN 600 Vertical submersible sewage pumps Stage: Single Non clog (free flow/ single/ multi channel) impeller Large free passage size up to 200 mm double mechanical seal Oil barrier chamber with float switch winding/ bearing temperature indicators/ moisture sensor Stationary / portable installation Dry/ wet pit installation With/ without macerator	Q _{max} : 340 m³/hr H _{max} : 68 m Temperature: up to 40°C Delivery Size: DN 32 - DN 150 → Vertical submersible dewatering pumps → Stage: Single → Free flow impeller free passage size up to 45 mm → Double mechanical seal → Oil barrier chamber with float switch winding temperature indicators moisture sensor → Stationary / portable installation → Dry/ wet pit installation
Temperature: up to 60°C Delivery Size: DN 32 - DN 600 Vertical submersible sewage pumps Stage: Single Non clog (free flow/single/multi channel) impeller Large free passage size up to 200 mm double mechanical seal Oil barrier chamber with float switch winding/bearing temperature indicators/moisture sensor Stationary/portable installation Dry/wet pit installation	Temperature: up to 40°C Delivery Size: DN 32 - DN 150 Vertical submersible dewatering pumps Stage: Single Free flow impeller free passage siz up to 45 mm Double mechanical seal Oil barrier chamber with float switch winding temperature indicators moisture sensor Stationary / portable installation
Delivery Size: DN 32 – DN 600 Vertical submersible sewage pumps Stage: Single Non clog (free flow/single/multi channel) impeller Large free passage size up to 200 mm double mechanical seal Oil barrier chamber with float switch winding/bearing temperature indicators/moisture sensor Stationary/portable installation Dry/wet pit installation	Delivery Size: DN 32 – DN 150 Vertical submersible dewatering pumps Stage: Single Free flow impeller free passage siz up to 45 mm Double mechanical seal Oil barrier chamber with float switch winding temperature indicators moisture sensor Stationary / portable installation
Vertical submersible sewage pumps Stage: Single Non clog (free flow/single/multi channel) impeller Large free passage size up to 200 mm double mechanical seal Oil barrier chamber with float switch winding/bearing temperature indicators/moisture sensor Stationary/portable installation Dry/wet pit installation	 Vertical submersible dewatering pumps Stage: Single Free flow impeller free passage siz up to 45 mm Double mechanical seal Oil barrier chamber with float switch winding temperature indicators moisture sensor Stationary / portable installation
Stage: Single Non clog (free flow/single/multi channel) impeller Large free passage size up to 200 mm double mechanical seal Oil barrier chamber with float switch winding/bearing temperature indicators/moisture sensor Stationary/portable installation Dry/wet pit installation	pumps > Stage: Single > Free flow impeller free passage siz up to 45 mm > Double mechanical seal > Oil barrier chamber with float switch winding temperature indicators moisture sensor > Stationary / portable installation
Dry/wet pit installation	
Mixer head for agitation With/without ceram coating for aggressive liquids	 With/without turbulator Level sensor for single phase versions with/without ceram coating for aggressive liquids
Casing - Cast Iron/Engineering Plastic Impeller - Cast Iron /SS / Engineering Plastic Other materials on request	 → Casing - Cast Iron/Engineering Plastic → Impeller - Cast Iron / SS / Engineering Plastic
 Municipal raw sewage transfer Sewage treatment plants Effluent treatment plants Dirty water in industry 	 Dewatering dirty water containing sand Construction sites Fountains
IP68 protection variety of motors include oil cooled, media cooled	→ Submersible electric motors with IP68 protection with variety of motors include oil cooled, media cooled motors, flameproof motors
	Dirty water in industry Submersible electric motors with IP68 protection variety of motors















Product	Mixer/Re-Circulation Pump	Submersible Borehole Pump	Submersible Polder Pump
Range	Q _{max} : 4.25 m³/hr	Q _{max} : 2500 m³/hr	Q _{max} : 1200 m³/hr
90	H _{max} :	H _{max} : 580 m	H _{max} : 160 m
	Temperature: up to 40°C	Temperature: up to 40°C	Temperature:
	Delivery Size:	Delivery Size: DN 25 - DN 400	Delivery Size:
Product/ Design Features	 Submerged operating mode: S1 protection class: IP 68 Two-stage planetary gear with exchangeable second planetary gear Permanently lubricated antifiction bearing Max. Submersion depth: 12.5 m 	 Submersible, multistage borehole pump with radial impellers suitable for 100 mm, 600 mm bore sizes Integrated non-return valve Max. Sand content: 50 g/m³ Up to 20 starts per hour Protection class: IP 58/IP 68 Single/three phase motor with NEMA motor 	 Mains connection 3~400 V, 50 Hz Max. fluid temperature 20°C Min. flow at outside shroud not necessary. Up to 10 starts per hou Max. immersion depth 300 m Protection class IP 68 control range for frequency converter 2-pole: 25-50 Hz 4-pole: 30-50 Hz
Optional Features	 Stationary/flexible installation via lowering device Can be swivelled horizontally for installation with lowering device installation with stand allows free placement in basin Single-stage planetary gear 	 → Horizontal installation → Cooling jacket 	
Material of Construction	→ Engineering Plastic→ Grey Cast Iron	Engineering Plastic, Grey Cast Iron, Stainless Steel, Bronze, other material on request	
Applications	 Swirling of deposits and solids destruction of floating sludge layers Activated sludge tanks for creation of fluid current Homogenisation and prevention of floating sludge layer Industry, agriculture & water supply 	 Sprinkling & irrigation Pressure boosting Water supply from borehole Process water supply Utilsation of geothermal energy and off-shore applications Fountains, snow cannons 	→ Potable and process water from tanks or shallow bodies of water; municipal and industrial water supply; sprinkling and irrigation; lowering the water level; utilisation of geothermal energy and offshore applications
Prime Movers	→ Electric motors	→ Electric motors	
Range of			

Range of application (50 Hz)













Pumping System

Design, engineering, manufacturing, testing,

Erection, commissioning, operation & maintenance of pumping systems along with allied electro-mechanical and instrumentation & control works on turnkey basis. Civil works for construction of pumping stations are also undertaken to provide one stop solution.

Services offered:

- → Techno-commercial feasibility study of pumping system
- → Project execution & management
- → Piping layout & mechanical design
- → Sump model study
- → Electrical power & control schemes
- → Instrumentation & control with PLC/ SCADA based operation
- → Surge analysis
- → Energy audit
- → Retrofitting

Engineering capabilities:

- → Intake design using CFD
- → Geometric modeling
- → Finite element analysis

Turnkey Firefighting System

Complete range of fire fighting pumps & fire fighting management systems for buildings & industry on turnkey basis

Specialises in following types of

- → Water/gas/ foam based
- → Fire detection & alarm
- → (conventional & addressable type)

Standard fire fighting system includes:

- → Main pump with prime mover
- → Jockey pump with prime mover
- → Hydrant lines
- → Deluge valves
- → Spray nozzles
- → Fire detection equipment
- → Instrumentation & control panels
- → Complete accessories

Standards followed:

- → Pumps comply to guidelines of
- → NFPA 20 / UL 448 / other standards on request*

Markets served:

- → Residential & commercial buildings
- → Petrochemicals & refineries
- → Power plants
- → Chemical & fertilizers
- → General industry

Accessories:

Unitised sets with essentials accessories as requested by the customer can also be provided by us to save time & energy.

Scope of supply may include:

Baseframe, coupling with coupling guard, valves, companion flange, flushing / sealing plan, instrumention and controls





Electrical motors:

Prime Movers

- → Types: Slip ring & squirrel cage induction motors as per NEMA -MG1 & IEC standards
- → Volts: 415/3300/6600/11000V
- → Rating : up to 4000 kW
- → Frequency: 50Hz/60 Hz
- → Enclosure : TETV, TEFC, SPDP, CACW, CACA
- → Protection: IP55, 56
- → Flame proof motors: As per IEC standards for mining operations.
- → All motors come with standard accessories. Optional accessories are offered on demand.



Diesel engines:

- → Types: 4 stroke naturally aspirated & turbocharged.
- → Radiator, heat exchanger cooled
- → Power: up to 1040 hp@1500 rpm
- → Displacement : 6/8/14/19/28
- → All diesel engines come with standard accessories. Optional accessories are offered on demand.



Steam turbine:

Single stage/multi stage condensing/noncondensing type steam turbines suitable for handling superheated/saturated process steam along with gear box and oil lubrication

Optional features:

- → Desuperheater with silencer
- → PLC based control panel
- → Acoustic enclosure

