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General Overview

Pumps and systems for the segments
 Building Services, Water Management and Industry



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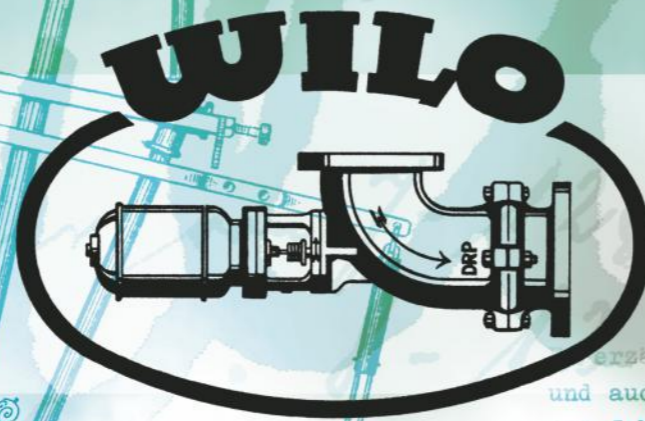
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*Technical matter subject to change

SINCE 1872

Louis Opländer,
Fabrik für Zentralheizungen,
Wasch-, Bade- u. Abort-Anlagen,
Inh.: Ingen. Louis Opländer, Prof.
u. Geschäftsführ.: Ingen. Ernst Leib-
heuser, F 717 u. 718, Fabrik und
Wohn.: Hohe Str. 190.

DORTMUND
FERNRUF 711



WILHELM OPLÄNDER GMBH WILOWERK
46 DORTMUND-HÖRDE · NORTKIRCHENSTRASSE 100 · RUF 0231/410 21

erzählt, wie sich unsere Firma entwickelt hat
und auch sonst noch allerlei aus den vergangenen
100 Jahren.

Begeistert macht es Ihnen Freude, ein bißchen
zu lesen.

Company history

- 1872 The company Louis Opländer Maschinenbau, a factory for brass and copper goods, was established
- 1965 Wilo international: Start of establishing own subsidiaries abroad
- 1984 Acquisition of Pompes Salmson, a French pump manufacturer
- 2000 Founding of WILO-LG Pumps Ltd., Korea
- 2001 In-house electronics production, Dortmund, Germany
- 2003 Acquisition of the EMU Group, Hof, Germany
- 2005 Acquisition of the Mather and Platt, Pune, India
- 2006 Acquisition of the Circulating Pumps Limited & CCD Pumps Limited, England

WILO

Pumpen Intelligenz.

Reliable solutions for the segments building services,
water management and industry.

Company Profile:

WILO SE, with headquarters in Dortmund, is one of the world's leading manufacturers of pumps and pump systems for heating, air conditioning and cooling technology, as well as for water supplies and sewage treatment and disposal. Founded in 1872 as Kupfer- und Messingwarenfabrik Louis Opländer, the company has almost 70 branches worldwide and over 6,000 employees. Turnover amounted to approx 1.1 billion EUR in 2011. International recognition has increased rapidly since the company became a European limited liability company (SE) in 2008. Wilo pumps and systems set global standards for efficiency and technical performance: with high-efficiency solutions for all applications in the segments.



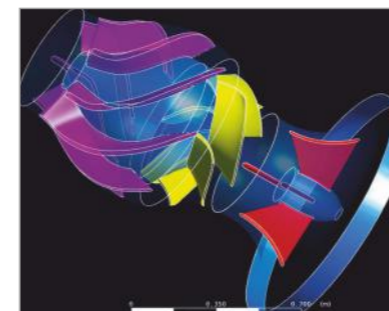
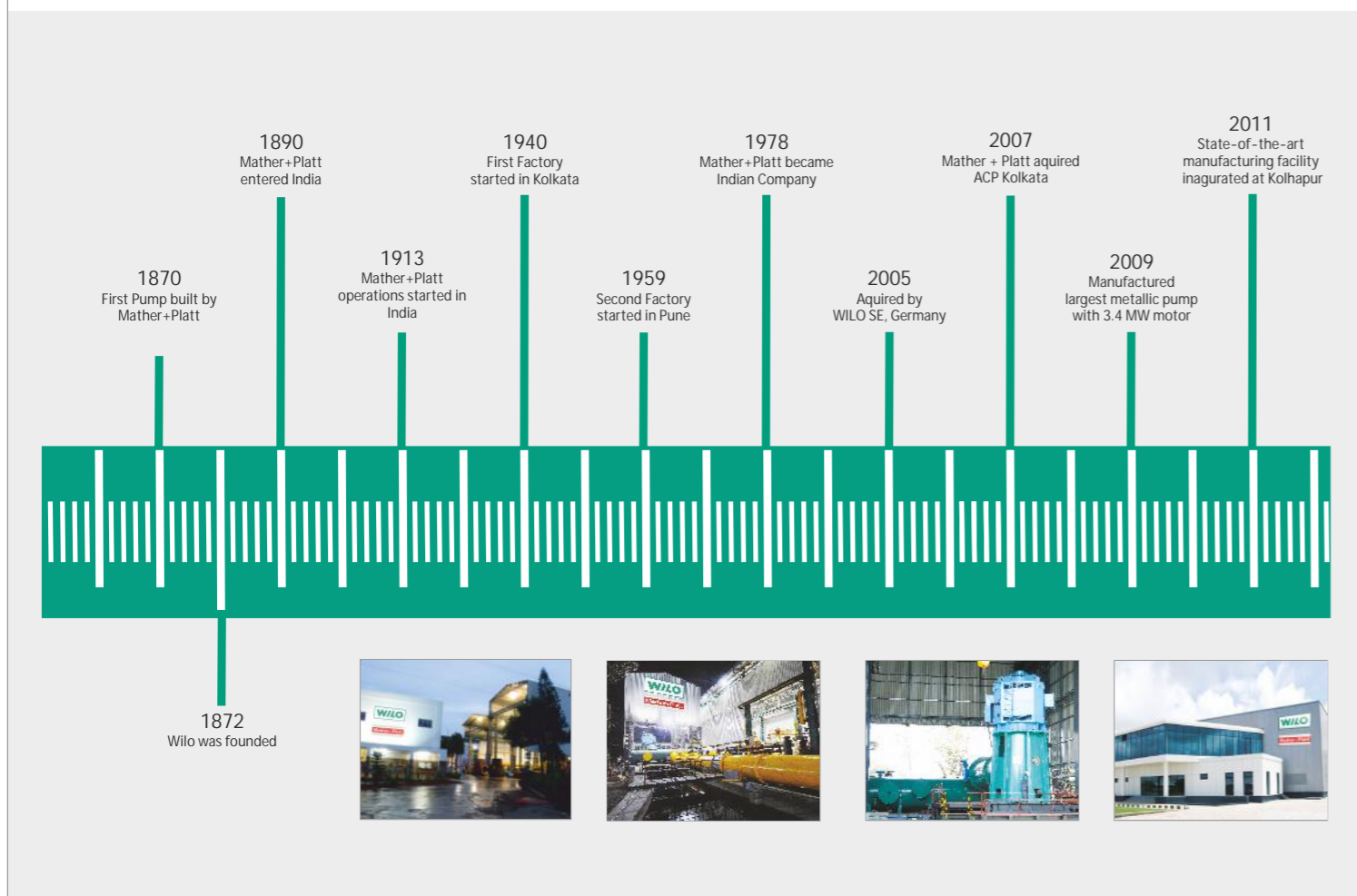
WILO SE Headquarter, Dortmund, Germany



Pune Plant, India



Kolhapur Plant, India



We have state-of-the-art Advanced Research Technology Education Centre (ARTEC) facility at Pune where continuous research, developments/upgradation of products and services are carried out. Following key activities are carried out at this Centre:-

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



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.



Water management

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.



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.



Fire

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.

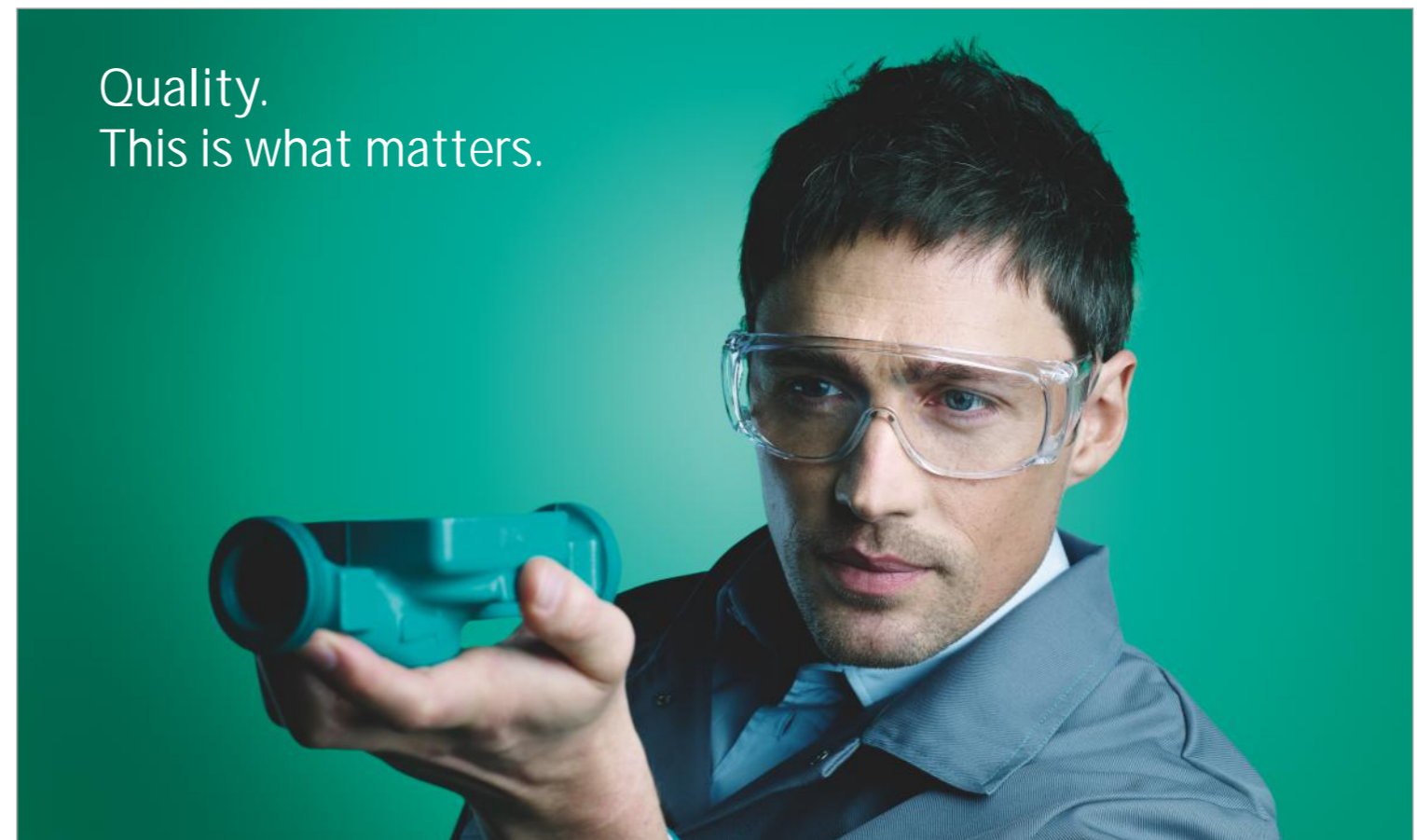


After sales service

Supply of spares and installation support provided to all segments.



Water is life.
And since 1872, Wilo has been connecting people with water.




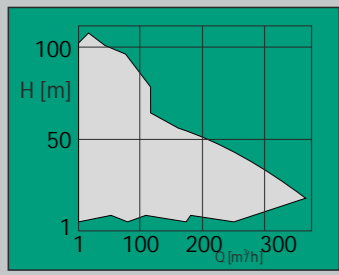

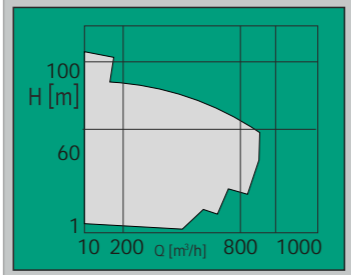

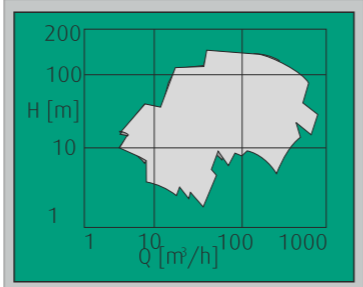
Quality.
This is what matters.

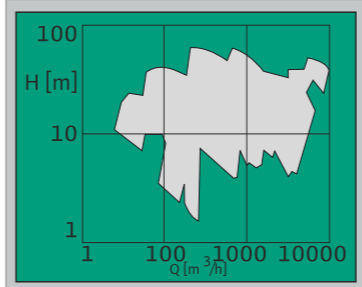




Standard Horizontal Split Case Pump	Engineered Horizontal Split Case Pump	Vertical Turbine Pump
 <p>Range Flow upto: 3400 m³/hr Head upto: 235 m Temperature: up to 120°C Delivery Size: DN 50 - DN 400</p> <p>Product / design features Mounting: Inline horizontal Stages : Single/ double single/ double suction impellers shaft with sleeves Grease lubricated antifriction bearing Mechanical seal/ gland packing</p> <p>Optional features Mounting: Vertical</p>  <p>Material of construction Casing - Cast Iron Impeller - Cast Iron / Bronze/ SS (CF8M)</p> <p>Applications Water supply / general industry Building service / fire fighting Spray irrigation / district heating</p> <p>Prime movers Electric motors Diesel engines</p> <p>Range of application (50 Hz)</p> 	 <p>Range Flow upto: 18000 m³/hr Head upto: 270 m Temperature: up to 120°C Delivery Size: DN 50 - DN 1200</p> <p>Product / design features Mounting: Inline horizontal Stages: One/ two/ three stage single/ double suction impellers Grease/ Oil lubricated antifriction bearings Mechanical seal/ gland packing</p> <p>Optional features Mounting: Centre line/ vertical Drive connection: direct/ cardan shaft bush bearing Staggered vane design for fan pump application Special suction/ delivery orientation* instrumentation & controls</p> <p>Material of construction Cast Iron, Bronze, Ductile Iron, Cast Steel, Ni Resist, Stainless Steel, Duplex Stainless Steel & special alloys</p> <p>Applications Water supply/ general industry Ports & docks/ fire fighting Irrigation/ marine desalination</p> <p>Prime movers Electric motors/ diesel engines steam turbine with gear box or cardan shaft</p> <p>Range of application (50 Hz)</p> 	 <p>Range Flow upto: 50000 m³/hr Head upto: 450 m Temperature: up to 80°C Delivery Size: DN 100 - DN 2000</p> <p>Product / design features 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</p> <p>Optional features 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</p> <p>Material of construction Cast Iron, Bronze, Ductile Iron, Mild Steel, Cast Steel, Ni Resist, Stainless Steel, Duplex Stainless Steel & special alloys</p> <p>Applications Water supply/ irrigation Cooling water for power plant Flood control/ condensate extraction general industry/ fire fighting</p> <p>Prime movers Electric motors Diesel engines via right angle gear box Steam turbine via right angle gear box</p> <p>Range of application (50 Hz)</p> 







Multistage Ring Section Pump	End Suction Pump as per ISO 2858	Norm Pump as per EN733
 <p>Range Flow upto: 1000 m³/hr Head upto: 1800 m Temperature: up to 160°C Delivery Size: DN 32 - DN 250</p> <p>Product / design features Mounting: Horizontal Stages: 3 to 15 Radial flow impellers with vane diffusers mechanical seal/ gland packing Grease lubricated antifriction bearings</p> <p>Optional features Mounting: Centreline/ vertical Multi-outlet design Balance valve design for axial thrust bush bearing/ roller bearing</p> <p>Material of construction Cast Iron, Bronze, Ductile Iron, Cast Steel, Ni Resist, Stainless Steel, Duplex Stainless Steel & special alloys</p> <p>Applications Mine dewatering Descaling in steel mills Boiler feed application Reverse osmosis for desalination plants water supply / general industry Fire fighting</p> <p>Prime movers Electric motors Diesel engines Steam turbine</p> <p>Range of application (50 Hz)</p> 	 <p>Range Flow upto: 750 m³/hr Head upto: 170 m Temperature: up to 120°C Delivery Size: DN32- DN 150</p> <p>Product / design features End suction top discharge Mounting: Horizontal Stage: Single Back pullout design Closed impeller Mechanical seal/ gland packing Grease lubricated antifriction bearings</p> <p>Optional features Mounting: Centreline/ vertical Semi-open impeller Oil lubricated antifriction bearings</p> <p>Material of construction Cast Iron, Bronze, Ductile Iron, Cast Steel, Ni Resist, Stainless Steel, Duplex Stainless Steel & special alloys</p> <p>Applications General industry Chemical & process Water supply Building service / fire fighting Irrigation / sprinkler system</p> <p>Prime movers Electric motors Diesel engines</p> <p>Range of application (50 Hz)</p> 	 <p>Range Flow upto: 600 m³/hr Head upto: 150 m Temperature: up to 120°C Delivery Size: DN 32 - DN 150</p> <p>Product / design features End suction top discharge Mounting: Horizontal Stage: Single Back pullout design Closed impeller Mechanical seal/ gland packing Grease lubricated antifriction bearings</p> <p>Material of construction Casing - Cast Iron Impeller - Cast Iron / Bronze</p> <p>Applications Building service Sprinkler systems Water supply General industry</p> <p>Prime movers Electric motors</p> <p>Range of application (50 Hz)</p> 

End Suction Pump Engineered/ Special	Horizontal Monobloc Pump	Vertical Inline Pump
 <p>Range</p> <p>Flow upto: 3000 m³/hr Head upto: 220 m Temperature: up to 120°C Delivery Size: DN 50 - DN 400</p> <p>Product / design features</p> <p>End suction top discharge Mounting: Horizontal Stage: Single Back pullout design Closed impeller Mechanical seal/ gland packing grease/oil lubricated antifriction bearings</p> <p>Optional features</p> <p>Mounting: Centreline/ vertical Delivery flange orientation change possible Bush bearing</p> <p>Material of construction</p> <p>Cast Iron, Bronze, Ductile Iron, Cast Steel, Ni Resist, Stainless Steel, Duplex Stainless Steel & special alloys</p> <p>Applications</p> <p>Water supply/ general industry Paper & pulp/ building service Fire fighting/ irrigation/ sprinkler system Treated effluent</p> <p>Prime movers</p> <p>Electric motors Diesel engines</p> <p>Range of application (50 Hz)</p> 	 <p>Range</p> <p>Flow upto: 34 m³/hr Head upto: 95 m Temperature: up to 110°C Delivery Size: DN 25 - DN 32</p> <p>Product / design features</p> <p>Mounting: horizontal Stages : 2 to 7 Corrosion proof wetted components mechanical seal with EPDM/ Viton elastomers</p> <p>Optional features</p> <p>Self priming models Electronic control motor Single & three phase</p> <p>Material of construction</p> <p>Casing - SS (304/316L) /Cast Iron Impeller - SS (304/316L)</p> <p>Applications</p> <p>Water supply Pressure boosting Industrial washing Sprinkling systems General industry</p> <p>Prime movers</p> <p>Electric motors</p> <p>Range of application (50 Hz)</p> 	 <p>Range</p> <p>Flow upto: 155 m³/hr Head upto: 235 m Temperature: up to 100°C Delivery Size: DN 25 - DN 100</p> <p>Product / design features</p> <p>Mounting: Vertical Inline Stages: 2 to 24 Antifriction Bearings Corrosion proof wetted components Mechanical seal with EPDM/ Viton elastomers Connection: Round</p> <p>Optional features</p> <p>Connection: Oval / Victaulic VFD on motor Single & Three phase motors High efficiency motors Flameproof motors</p> <p>Material of construction</p> <p>Casing - SS (304/316L) /Cast Iron Impeller - SS (304/316L)</p> <p>Applications</p> <p>Water Supply Pressure Boosting Jockey pump in firefighting Boiler feed, Industrial Washing Sprinkling Systems General Industry</p> <p>Prime movers</p> <p>Electric motors</p> <p>Range of application (50 Hz)</p> 

Single Pump Booster	Multi-Pump Booster	Circulator
 <p>Range</p> <p>Flow upto: 25 m³/hr Head upto: 68 m Temperature: up to 110°C Delivery Size: DN 25 - DN 32</p> <p>Product / design features</p> <p>Pressure Boosting systems with Single pump in Horizontal or vertical inline design corrosion proof wetted parts</p> <p>Optional features</p> <p>Fitted with Fluid Control or pressurised tanks & with float switch/ pressure switch Option of inline shower</p> <p>Material of construction</p> <p>Casing - SS (304/316L) /Cast Iron Impeller - SS (304/316L) / Cast Iron</p> <p>Applications</p> <p>Pressure Boosting for Residential Buildings Bathroom Shower panels</p> <p>Prime movers</p> <p>Electric motors</p> 	 <p>Range</p> <p>Flow upto: 900 m³/hr Head upto: 235 m Temperature: up to 120°C Delivery Size: DN 32 - DN 100</p> <p>Product / design features</p> <p>Multi-pump pressure boosting system from two up to eight pumps in stainless steel construction, Fitted on a common baseplate with vibration dampers</p> <p>Optional features</p> <p>Horizontal / vertical pumps Variety of panels with floating VFD/ with dedicated VFD/ Without VFD, with PC/without PLC, panels with customized requirements</p> <p>Material of construction</p> <p>Casing - SS (304/316L) /Cast Iron Impeller - SS (304/316L)</p> <p>Applications</p> <p>Pressure boosting for commercial complexes, hotels, industries, etc.</p> <p>Prime movers</p> <p>Electric motors</p> 	 <p>Range</p> <p>Flow upto: 100 m³/hr Head upto: 18 m Temperature: up to 110°C Delivery Size: DN 25 - DN 125</p> <p>Product / design features</p> <p>Glandless circulation pump with threaded connection or flange connection, EC motor and automatic power adjustment. Single/ three phase</p> <p>Optional features</p> <p>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</p> <p>Material of construction</p> <p>Engineering Plastic Grey Cast Iron</p> <p>Applications</p> <p>Electric motors</p> <p>Prime movers</p> <p>Electric motors</p> 

Close Coupled Horizontal Pump	Close Coupled Inline Vertical Pump	Vertical Sump Pump
 <p>Range Flow upto: 360 m³/hr Head upto: 110 m Temperature: up to 140°C Delivery Size: DN32- DN 100</p> <p>Product / design features Low pressure end suction top discharge pump Mounting: Horizontal Stage: Single/ close coupled design KTI coating for corrosion protection 3 phase standard IEC IP 55 motors Mechanical seal</p> <p>Optional features High efficiency motors Flameproof motors</p> <p>Material of construction Casing - Cast Iron Impeller - Cast Iron / Bronze</p> <p>Applications Building service Hot water Water glycol mixture Cold water without abrasive substances</p> <p>Prime movers Electric motors</p> <p>Range of application (50 Hz)</p> 	 <p>Range Flow upto: 800 m³/hr Head upto: 110 m Temperature: up to 140°C Delivery Size: DN32- DN 150</p> <p>Product / design features Low Pressure Inline pump Stage: Single Stage Close coupled design KTL Coating for Corrosion Protection 3 Phase standard IEC IP 55 motors Mechanical seal</p> <p>Optional features VFD on motor High efficiency motors Flameproof motors Twin head pumps</p> <p>Material of construction Casing - Cast Iron Impeller - Cast Iron / Bronze</p> <p>Applications Building Service Hot water Water Glycol mixture Cold water without abrasive substances</p> <p>Prime movers Electric motors</p> <p>Range of application (50 Hz)</p> 	 <p>Range Flow upto: 750 m³/hr Head upto: 220 m Temperature: up to 150°C Delivery Size: DN 32 - DN 200</p> <p>Product / design features Vertical wet pit volute pump with Dry motor Stage: Single Closed impeller Oil lubricated bearing arrangement antifriction bearing Mechanical seal/ gland packing</p> <p>Optional features Semi-open Impeller</p> <p>Material of construction Cast Iron, Bronze, Ductile Iron, Cast Steel, Ni Resist, Stainless Steel, Duplex Stainless Steel & special alloys</p> <p>Applications Emergency oil pump Dewatering</p> <p>Prime movers Electric motors</p> <p>Range of application (50 Hz)</p> 

Drypit Nonclog Sewage/ Wastewater Pump	Submersible Sewage Pump	Submersible De-watering Pump
 <p>Range Flow upto: 8000 m³/hr Head upto: 700 m Temperature: up to 90°C Delivery Size: DN50- DN 800</p> <p>Product / design features End suction top discharge Mounting: Horizontal Stage: Single Casing with hand hole inspection cover mechanical seal/ gland packing large free passage up to 200 mm Grease lubricated antifriction bearing</p> <p>Optional features Mounting: Vertical Delivery flange orientation change possible Bush bearing</p> <p>Material of construction Cast Iron, Bronze, Ductile Iron, Cast Steel, Ni Resist, Stainless Steel, Duplex Stainless Steel & special alloys</p> <p>Applications Municipal raw sewage transfer Sewage treatment plants Effluent treatment plants Dirty water in industry Sugar mills</p> <p>Prime movers Electric motors</p> <p>Range of application (50 Hz)</p> 	 <p>Range Flow upto: 8000 m³/hr Head upto: 100 m Temperature: up to 60°C Delivery Size: DN 32- DN 600</p> <p>Product / design features 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</p> <p>Optional features Stationary / portable installation Dry/ wet pit installation With/ without macerator Mixer head for agitation With/without ceram coating for aggressive liquids</p> <p>Material of construction Casing - Cast Iron/ Engineering Plastic Impeller - Cast Iron / SS / Engineering Plastic Other materials on request</p> <p>Applications Municipal raw sewage transfer Sewage treatment plants Effluent treatment plants Dirty water in industry</p> <p>Prime movers Submersible electric motors with IP68 protection variety of motors include oil cooled, media cooled motors, flameproof motors</p> 	 <p>Range Flow upto: 340 m³/hr Head upto: 68 m Temperature: up to 95°C Delivery Size: DN 32 - DN 150</p> <p>Product / design features 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</p> <p>Optional features Stationary / portable installation Dry/ wet pit installation With/ without turbulator Level sensor for single phase versions with/ without ceram coating for aggressive liquids</p> <p>Material of construction Casing - Cast Iron/ Engineering Plastic Impeller - Cast Iron / SS / Engineering Plastic</p> <p>Applications Dewatering dirty water containing sand Construction sites Fountains</p> <p>Prime movers Submersible electric motors with IP68 protection with variety of motors include oil cooled, media cooled motors, flameproof motors</p> 

Mixer/ Re-Circulation Pump	Submersible Borehole Pump	Submersible Polder Pump
 <p>Range Flow upto: 4.25 m³/hr Head upto: - Temperature: up to 40°C Delivery Size: -</p> <p>Product / design features Submerged operating mode: S1 protection class: IP 68 Two-stage planetary gear with exchangeable second planetary gear Permanently lubricated anti-friction bearing Max. Submersion depth: 12.5 m</p> <p>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</p> <p>Material of construction Engineering Plastic Grey Cast Iron</p> <p>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</p> <p>Prime movers Electric motors</p> 	 <p>Range Flow upto: 2500 m³/hr Head upto: 580 m Temperature: up to 40°C Delivery Size: DN 25 - DN 400</p> <p>Product / design features 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</p> <p>Optional features Horizontal installation Cooling jacket</p> <p>Material of construction Engineering Plastic, Grey Cast Iron, Stainless Steel, Bronze, other material on request</p> <p>Applications Sprinkling & irrigation Pressureboosting Water supply from borehole Process water supply Utilisation of geothermal energy and off-shore applications Fountains, snow cannons</p> <p>Prime movers Electric motors</p> 	 <p>Range Flow upto: 1200 m³/hr Head upto: - 160 m Temperature: Delivery Size:</p> <p>Product / design features Mains connection 3-400 V, 50 Hz Max. fluid temperature 20°C Min. flow at outside shroud not necessary Up to 10 starts per hour Max. immersion depth 300 m Protection class IP 68 control range for frequency converter 2-pole: 25-50 Hz 4-pole: 30-50 Hz</p> <p>Applications 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</p> 

Pumping System	Turnkey Firefighting System	Prime Movers
 <p>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.</p> <p>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</p> <p>Engineering capabilities: Intake design using CFD Geometric modeling Finite element analysis</p> <p>Accessories: Unitised sets with essentials accessories as requested by the customer can also be provided by us to save time & energy.</p> <p>Scope of supply may include: Baseframe, coupling with coupling guard, valves, companion flange, flushing / sealing plan, instrumentation and controls</p> 	 <p>Complete range of fire fighting pumps & fire fighting management systems for buildings & industry on turnkey basis</p> <p>Specialises in following types of systems Water / gas / foam based Fire detection & alarm (conventional & addressable type)</p> <p>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</p> <p>Standards followed : Pumps comply to guidelines of NFPA 20 / UL 448 / other standards on request*</p> <p>Markets served: Residential & commercial buildings Petrochemicals & refineries Power plants Chemical & fertilizers General industry</p> <p>Accessories: Unitised sets with essentials accessories as requested by the customer can also be provided by us to save time & energy.</p> <p>Scope of supply may include: Baseframe, coupling with coupling guard, valves, companion flange, flushing / sealing plan, instrumentation and controls</p> 	 <p>Electrical motors: 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.</p>  <p>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.</p>  <p>Steam turbine: Single stage/ multi stage condensing/ non-condensing type steam turbines suitable for handling superheated/ saturated process steam along with gear box and oil lubrication system</p> <p>Optional features: Desuperheater with silencer PLC based control panel Acoustic enclosure</p>