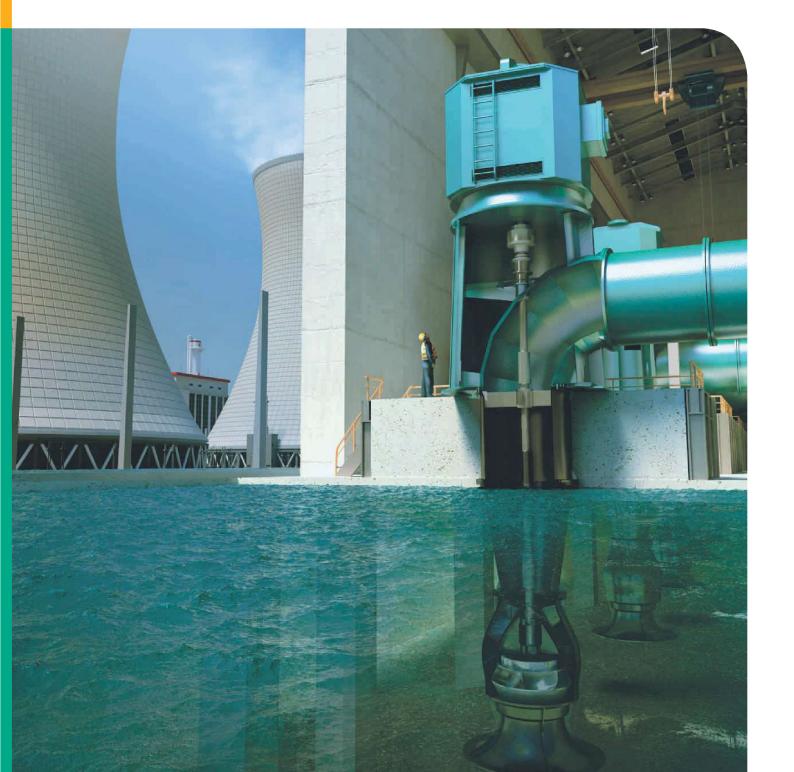


High efficiency solutions for

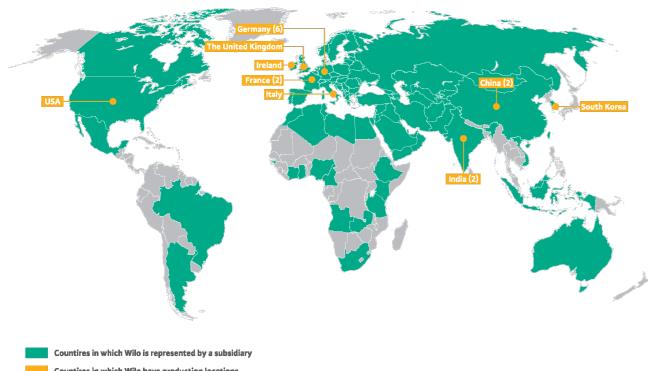
Vertical Turbine Pump



Introduction Introduction



World map with local & global presence of WILO







WILO Mather and Platt Pumps Pvt. Ltd.

Mather and Platt started its Indian operations in 1913 from Kolkata, and has been fulfilling the need of water supply for more than 100 years in India for segments like building services, water management and industries.

We started our operation at Chinchwad works in Pune, Maharashtra in year 1959.

Mather and Platt Pump Ltd became part of WILO SE in the year 2005 And in year 2014, WILO Mather and Platt Pumps Ltd. Become WILO Mather and Platt Pumps Pvt. Ltd.

In the year 2009 a new state of art manufacturing facility covering over approx. 6000 sq. meters has been built at Kolhapur around 260 km from Pune to manufacture the latest high efficiency products of Wilo India.

The Pune & Kolhapur plants have acquired ISO 9001, ISO 14001 and OSHAS 18001 and all products are CE certified.



ISO Certifications



Awards

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.

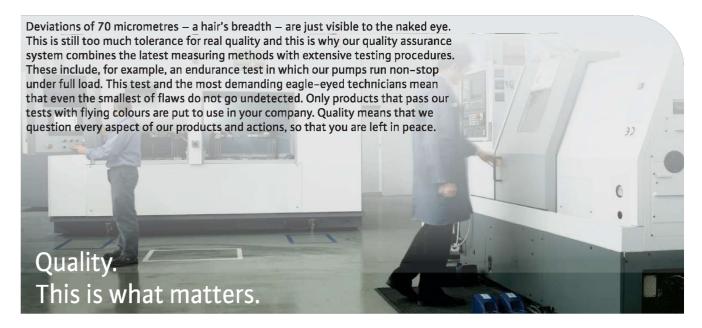
Not much is required for highly efficient environmental protection.

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.

Sustainability.

Today's ideas, tomorrow's standard solutions.

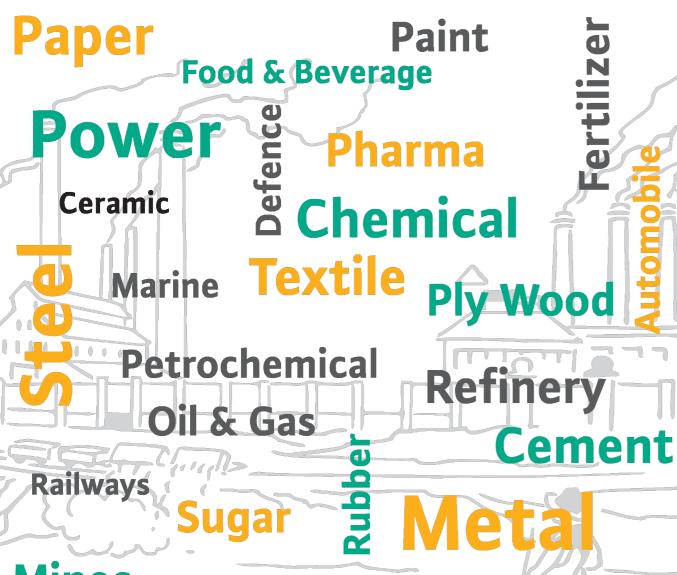


Flexibility is one of the most important qualities in the business world of today. Not only for the product range or service, but also spatially. Our specialists for development, quality assurance and production work in close cooperation with you when integrating our pumps in your production process. 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.

Service.

Wherever you need us.



Mines













Engineering Capabilities

IDEC

Our Design & Engineering Centre [IDEC] facility in Pune, India focus on continuous research, development of products & services with state of art technologies.. Key activities carried out are as follows

- → Geometric modelling
- In-house hydraulic design
- → Computational fluid Dynamics [CFD]
- → Finite Element Analysis [FEA]
- → Sump model & Intake sump model analysis
- Stress, Torsional & Seismic analysis

Team of experts working towards developmentof world-class fluid pumping technology to catergrowing demands from Indian & Overseascustomers offering cutting edge solution withBest In Class solutions in terms of hydraulicefficiency, energy efficiency, weight to hydraulicmass ratio & structural durability





Test Bed

Latest facility for ensuring outgoing product quality of International standards in terms of hydraulics performance, vibrations as well as noise levels.

Facility & Capabilities

- → Large pump Test bed for flows upto 60000 m³/hr, EOT crane capacity 60 Ton
- → Standard pump test bed for end suction, Horizontal Split Case pump flow upto 30000 m³/hr
- → NPSH req. testing capable for flows to 6000 m3/hr
- → Full speed tests uptp 4.5 Mega Watt
- → All measuring equipment calibrated on a scheduled basis with traceability to International Standards
- → Testing capability of a complete engine driven pump











Expertise comes in all sizes

Vertical Turbine Pumps



Applications

WILO Mather and Platt Vertical turbine pump is normally used in high-flow applications

- Water supply [drinking water, raw water intake & sea water]
- → Irrigation
- → Fire Fighting
- Cooling water of power plants
- > Flood control

Vertical Turbine Pumps	:	74 models [60 Hz]
Series	:	CNE, VMF, VMP*, VAF*, VMFO*
Flow Range++	:	up to 60000 m3/hr
Head Range	:	up to 450 m
Operating Temperature	:	0°C to 80°C, Higher on request
Mounting	:	Vertical
Orientation	:	Above Floor, Below Floor
Trust Bearing	:	Grease , Oil
Lubrication		
Line Shaft Bearing Lubrication	:	Self, Forced [external]
Direction of Rotation	:	Clockwise, Counter Clockwise
Bowl Assembly	:	Pull out or Non-pull out

For 60 Hz application, contact WILO Mather and Platt Pumps

- ++Higher flow available on request
- *VMP & VAF pumps are with propeller type impellers
- ** VMFO pumps are with semi open type impellers

Material of Construction*

Impeller	: Cast Iron, Bronze Stainless Steel, Ni-Cl,
	Cast Steel, Duplex, Super Duplex
Diffuser	: Cast Iron, Stainless Steel, Ni-Cl,
	Cast Steel, Duplex, Super Duplex
Shaft	: Stainless Steel [EN8, EN19, SS 304,
	SS 410, SS410H, SS 316L, UNS]
Shaft Sleeve	: Carbon Steel [EN8], Stainless Steel [SS
	304,SS 410, SS410H, SS 316L, UNS]

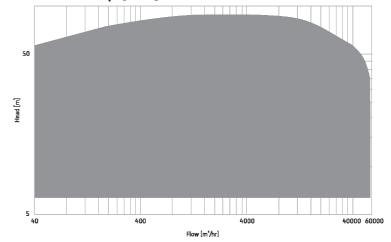
Casing wear ring : Cast Iron, Bronze Stainless Steel, Ni-Cl Intermediate bearing : FINOCOT, THORDON, FEROFORM

Cut-less Rubber

Bell mouth : Cast Iron, Stainless Steel, Ni-Cl,
Cast Steel, Duplex, Super Duplex

¹RM Pipes : Mild Steel, Stainless Steel ²DBMS : Mild Steel, Stainless Steel

Vertical Turbine Pumps [60 Hz]



¹RM Pipes : Rising Main Pipe

²DBMS : Delivery Bend cum Motor Stool

^{*} Pump with other material combinations available on request

Product Installations

Above Floor Installation:
 Discharge bend is above ground level



Discharge bend is below ground level
Thrust block arrangement is provided at the back of the discharge bend to absorb the trust generated due to change in direction of flow in discharge bend

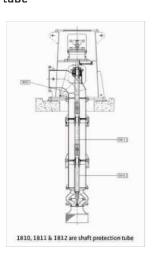


Product Variants With Shaft tube

In case of contaminated liquid causing objectionable fast wear of intermediate bearings

Rotating assembly is protected by means of shaft tube

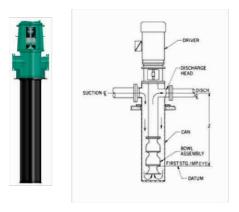
Fresh water/lubricating fluid is injected in the shaft tube



Constructional Variant

Vertical Turbine Pump with Cassian/Canister

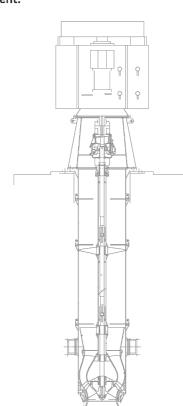
This type of arrangement is typically used in condensate extraction
In this pump body [i.e. Bowl assembly, intermediate pipes] is placed in side a canister/barrel
NPSHa is very less in such applications

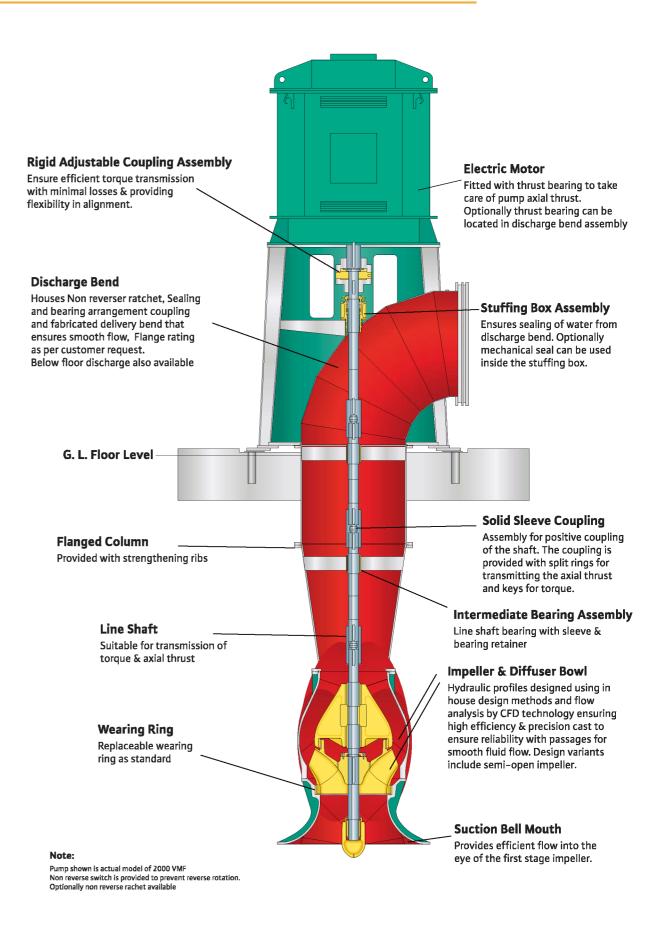


Design Features

Bowl Pull out

Maintenance friendly design where the pump hydraulics can be taken out for repairs without disturbing pipe arrangement.



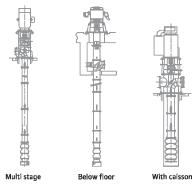


Expertise comes in all sizes

Prime Mover

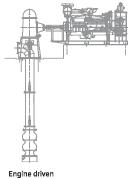
Vertical Turbine Pumps can be driven with :: Electric motor:

Pump are supplied with Flange mounted solid or hollow shaft vertical motors confirming to IE1/IE2/IE3 standards/NEMA norms, IP 55 protection class, High Voltage motors in TEFC/CACA/CACW designs & other customised design on request



Diesel Engine:

Radiator cooled/Heat exchanger cooled options as per the requirement with right angled gear box



Product Certifications & Approvals

→ All Vertical Turbine pumps are certified with CE EAC [for Russian countries]

Customer Benefits

- → Space saving
- → Engineered product : Pumps are available in variety of materials & construction to meet exact customer requirement
- High pump efficiency delivered with high flow









WILO SE
Representative Office (Philippines)
Level 24, BGC Corporate Center
30th St. Cor. 11th Ave.,
Bonifacio Global City
Taguig 1634, Philippines
T+632 8790 0178
sales.ph@wilo.com
www.wilo.ph