



Since 1969

Unnati[®]

MOTORS | PUMPS



50 / 60 Hz



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COMPANY PROFILE

Incorporated in the year 1985, UNNATI PUMPS PVT. LTD., is a manufacturing more than hundreds different varieties of submersible pump sets customized specially to customers' needs. We market these pumps under the brand name "Unnati" through our wide-spread and extensive distribution network across India and overseas market. We have our corporate and manufacturing set up at 81, Amarnath Industrial Estate, Naroda Road, Ahmedabad – 380025, Gujarat, INDIA.

THE PROMOTER

The Company is promoted and managed by MR. S.B. Patel, a technocrat and qualified entrepreneur having 5 decades of rich experience in pumping technology and marketing.

It is under his leadership, UNNATI PUMPS PVT. LTD. has gathered many feathers on its cap to the extent that UNNATI has become synonymous.

He is now assisted by his versatile son Mr. Dhruvik S. Patel, the Director, to develop and cater overseas and domestic market.

OUR INFRASTRUCTURE

The pump-sets are manufactured with using latest technology in air condition eco-friendly environment using SPM and CNC machines for mass production under the strict supervision of qualified, experienced and expert engineers to maintain the quality and consistent performance of our pump sets.

We have installed, auto welding machine, auto-hydraulic press and online assembly unit for fabricated S.S. Impeller and bowels. We also have computerized printing and marking machines for name plates of pump and motor sets. Submersible pump components are pre-washed by special washing machine prior to the assembly.

Installation of online pump assembly is in progress.

CAD is used to design all the critical components in order to achieve optimum performance.

All equipments are regularly monitored for accuracy and efficiency.

At "UNNATI", we also focus on R&D to study and analyze the products for continuous modification improvement and upgradation for efficiency and performance of the pumpsets and quality enhancement.

TRAINING

The company give utmost importance in imparting training to its employees and distributors not only to handle the job with perfection but also keep them aware of latest development in the field of pump technology.

Company has well developed extensive manufacturing set up to meet any market demand in volume and quality thanks to its technologically advanced facilities.



Satisfied customer is our highest achievement which” keeps us constantly striving to serve our customers with integrity and quality. Focusing on this goal with vigorous team efforts, we promise to serve them to deliver only the best.

In order to maintain the highest quality and performance of our pump sets the company has facility of ultra-modern testing and inspection instruments for continuous monitoring manufacturing process.

We have electronic flow-meter in the computerized testing laboratory which provides unique facility of testing multiple pumps simultaneously for head versus discharge and overall efficiency at various position minimizing the time and human error thus making the performance report more authentic and reliable.





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CUSTOMER FOCUS

At Unnati, customer is focus of attention for all activities at all level and every care is taken to see him delighted. His enquiry prior to sales is promptly responded for techno-commercial details and after sales-services to develop his confidence in our product and services.

Utmost care is taken to define customer requirements or complaints by providing prompt and proper corrective actions thereby keeping him satisfied. Suggestions and complaints are also invited from the customers periodically to find out whether they are satisfied with the performance of product, timely supplies, packing & dispatch, behavior and attitude and whether they are really satisfied with the corrective actions taken.

An IS/ISO 9001:2015 Company

Unnati Pumps Pvt. Ltd. has privilege to be one of the pioneer manufacturing units of India manufacturing Submersible Pump sets to obtain International Quality System Certification ISO 9001 way back on 15th. August 1995.

THE KEY

to our growth and
success is simple



“ Together we can do it
Together we have
always done it ”

4"

WATER LUBRICATED SUBMERSIBLE MOTOR

Unnati UW4 series submersible motors are water Lubricated designed for installation in 4" diameter or larger water wells. These motors operate in high torque Capacitor Start Capacitor Run (CSCR) system and can be easily rewound and repaired.

Unnati Submersible Motors are robust rewindable and pre-filled with clean water mixed with anti-corrosion fluid. The stator winding is of Poly Propylene copper winding wires. It features water lubricated radial and thrust bearings. Dynamically balanced rotor of these Unnati UW4 Series submersible motors maintain uniform clearance to give better efficiency and increase the life cycle of the water lubricated bush bearings. Specially designed high performance thrust bearings are used to withstand high axial thrust loads.

Pressure equalizing rubber diaphragm is provided to guard against pressure and volume variations due to thermal expansion of water inside the motor. Motor is sealed by "O" rings, shaft seals and sand guards to prevent leakage of motor lubricant and ingress of well water, sand and fibre particles into the motor. Mounting dimension of motors are in accordance with "NEMA" standard.



PRODUCT SPECIFICATION

- Upper & Lower Housing and motor base : Only Stainless Steel
- Stator shell : S S 304
- Motor shaft : S S 420
- Winding wire : Poly Propylene
- Shaft extension and coupling dimensions : As per "NEMA" Standards
- Degree of protection : IP 68
- Max water temperature : 35° C
- Nos. of Start per Hour : Max 20 at regular intervals.
- Voltage variation : +6% / -10% at rated voltage.
- Max depth immersion : 400 metres
- Motor cable length : 3.0 metres (3 core / 4 core)
- Maximum Outer Dia : 98 mm
- Power Range : 0.37 kW - 2.20 kW - Single Phase
0.75 kW - 7.50 kW - Three Phase

- Versions :
- A.C. Single Phase. : 220-230 volt - 50 HZ
- A.C. Three Phase. : 380-400-415 volt - 50 HZ
Direct online (D.O.L)

- Speed : 2850 RPM
- Type of Duty : S1 (Continuous)

PRODUCT FEATURE

- Unnati UW4 Water Lubricated Submersible Motor are robust Rewindable and pre-filled with clean water mixed with anti-corrosion fluid.
- Bearing : Water lubricated radial and thrust bearing (Carbon V/S Chrome Steel).
- Shaft extension made of stainless steel AISI 420.
- High efficiency electrical design for lower operating cost.
- Single phase motors are Capacitor Start Capacitor Run (CSCR) design.
- Pressure compensation diaphragm.
- All single phase motors require control box.

PRODUCT APPLICATION

"Unnati" prime mover Submersible Motors are suitable to couple with deep well Submersible Pump used for :

- Residential Purpose
- Irrigation
- Fountains
- Industrial water supply
- Pressure Boosting Units
- Gardens & Horticulture
- Drip & Sprinkler Systems
- Mining Industries
- Oil & Gas Industries





WATER LUBRICATED SUBMERSIBLE MOTOR

SR. NO.	DESCRIPTION	QTY.
1	LOWER BEARING HOUSING	1
2	LOWER COVER	1
3	BREATHER DIAPHRAGM	1
4	ROCKER SUPPORT	1
5	THRUST BEARING	1
6	BEARING BUSH	4
7	STATOR TUBE	1
8	STATOR STAMPING	AS PER S.L.
9	ROTOR	1
10	STATOR COLLAR	2
11	STATOR INSERT	2
12	UPPER WITH CONNECTING	1
13	S.S. STUD	4
14	INSULATED WINDING WIRE	

Model	P _n		Motor Length (mm)	Net Weight (kg)
	kW	HP		
UW4SP0050H5SS	0.37	0.50 SP	478.50	13.40
UW4SP0075H5SS	0.55	0.75 SP	508.50	14.65
UW4SP0100H5SS	0.75	1.00 SP	508.50	14.65
UW4SP0150H5SS	1.10	1.50 SP	583.50	20.50
UW4SP0200H5SS	1.50	2.00 SP	658.50	23.50
UW4SP0300H5SS	2.20	3.00 SP	708.50	25.40
UW4TP0100H5SS	0.75	1.00 TP	533.50	16.10
UW4TP0150H5SS	1.10	1.50 TP	583.50	19.20
UW4TP0200H5SS	1.50	2.00 TP	608.50	21.05
UW4TP0300H5SS	2.20	3.00 TP	658.50	23.10
UW4TP0400H5SS	3.00	4.00 TP	708.50	25.20
UW4TP0550H5SS	4.00	5.50 TP	738.50	26.70
UW4TP0750H5SS	5.50	7.50 TP	878.50	35.85
UW4TP1000H5SS	7.50	10.0 TP	1018.5	44.00

P_n = Rated Output



