



Since 1969

# Unnati<sup>®</sup>

MOTORS | PUMPS



50 / 60 Hz



## 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 ”

8"

## WATER LUBRICATED SUBMERSIBLE MOTOR

Unnati UW8 series submersible motors are water Lubricated designed for installation in 8" diameter or larger water wells. These motors 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 PVC or Poly Propylene insulated copper winding wires. It features water lubricated radial and thrust bearings. Dynamically balanced rotor of these Unnati UW8 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 in to the motor. Mounting dimension of motors are in accordance with "NEMA" standard.



## PRODUCT SPECIFICATION

- Rewindable
- Upper & Lower Housing, Connecting piece and motor base : Graded C.I Casting with Epoxy paint.
- Stator shell : S S 304
- Motor shaft : S S 420
- Winding wire : Poly Propylene or PVC insulated
- 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.
- Bearing : Water lubricated radial and thrust bearing (Carbon V/S Chrome Steel)
- Max depth immersion : 500 metres.
- Motor cable length : 3.0 metres (3 core / 4 core)
- Maximum Outer Dia. : 192 mm
- Power Range : 5.5 kW - 75 kW - Three Phase
- Versions :
- A.C. Three Phase. : 380-400-415 volt - 50 HZ
- Direct Online (D.O.L.) : 5.5 kW - 75 kW
- Star Delta (S.D.) : 7.5 kW - 75 kW
- Speed : 2900 RPM
- Type of Duty : S1 (Continuous)

## PRODUCT FEATURE

- Unnati UW8 Submersible Motors are robust Rewindable and pre-filled with clean water mixed with anti-corrosion fluid.
- Stator shell with corrosion resistant Stainless Steel.
- Bearing : Water lubricated radial and thrust bearing .
- Shaft extension made of Stainless Steel AISI 420.
- High efficiency electrical design for Lower Operating Cost.
- Pressure compensation diaphragm.

## 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
- De-watering
- Fire Fighting







## WATER LUBRICATED SUBMERSIBLE MOTOR

SR. NO.	DESCRIPTION	QTY.
1	MOTOR BASE	1
2	BREATHER DIAPHRAGM	1
3	ROCKER SUPPORT	1
4	THRUST BEARING	1
5	LOWER BEARING HOUSING	1
6	BEARING BUSH	4
7	END RING	2
8	STATOR STAMPING	AS PER S.L.
9	STATOR TUBE	1
10	ROTOR	1
11	UPPER BEARING HOUSING	1
12	CONNECTING PIECE	1
13	UPPER CLAMPING STUD	4
14	LOWER CLAMPING STUD	4
15	INSULATED WINDING WIRE	

Model	P <sub>n</sub>		Motor Length (mm)	Net Weight (kg)
	kW	HP		
UW8TP0075H5CI	5.50	7.50	786	90
UW8TP0100H5CI	7.50	10.00	836	96
UW8TP0125H5CI	9.30	12.50	886	107
UW8TP0150H5CI	11.00	15.00	936	121
UW8TP0200H5CI	15.00	20.00	986	130
UW8TP0250H5CI	18.50	25.00	1036	140
UW8TP0300H5CI	22.00	30.00	1086	150
UW8TP0360H5CI	26.50	36.00	1040	158
UW8TP0400H5CI	30.00	40.00	1065	158
UW8TP0450H5CI	33.00	45.00	1135	169
UW8TP0500H5C	37.50	50.00	1175	169
IUW8TP0550H5CI	41.00	55.00	1270	178
UW8TP0600H5CI	45.00	60.00	1290	178
UW8TP0700H5CI	52.00	70.00	1350	188
UW8TP0750H5CI	55.00	75.00	1370	192
UW8TP0850H5CI	63.00	85.00	1430	198
UW8TP1000H5CI	75.00	100.00	1530	209



