



Since 1969

# Unnati<sup>®</sup>

MOTORS | PUMPS



50 / 60 Hz



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MOTORS | PUMPS

## 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"

## OIL LUBRICATED SUBMERSIBLE MOTOR

Unnati UO4 series submersible motors are Oil Lubricated designed and sized for installation in 4" diameter or larger water wells. These motors operate in Capacitor Start Capacitor Run (CSCR) system & Capacitor Start Run (CSR) system and can be easily rewound and repaired.

These Unnati UO4 Series submersible motors are equipped with quality ball bearing maintain uniform clearance to give better efficiency and increase the life cycle. The stator winding is of enameled Copper Insulation Class-H winding wire. High quality carbon/ceramic mechanical shaft seal and oil seal made of Nitrile rubber are used to ensure better sealing system. Plug and Socket removable cable leads are provided for easy maintenance and safe handling.

Pressure equalizing rubber diaphragm is provided to guard against pressure and volume variations due to thermal expansion of Oil 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 fiber particles in to the motor. Mounting dimension of motors are in accordance with "NEMA" standard.



## PRODUCT SPECIFICATION

- Upper & Lower Housing : Graded C.I Casting with Epoxy paint. Also available with S S cladding.
- Motor base : Noryl GTX -30 % Glass Filled
- Stator shell : S S 304
- Motor shaft : S S 420
- Winding wire : Enameled Copper insulation Class-H
- Shaft extension and coupling dimensions : As per "NEMA" Standards
- Degree of protection : IP 68
- Max Oil temperature : 35° C
- Nos. of Start per Hour : Max 20 at regular intervals.
- Voltage variation : +6% / -10% at rated voltage.
- Max depth immersion : 300 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  
1.10 kW - 5.50 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

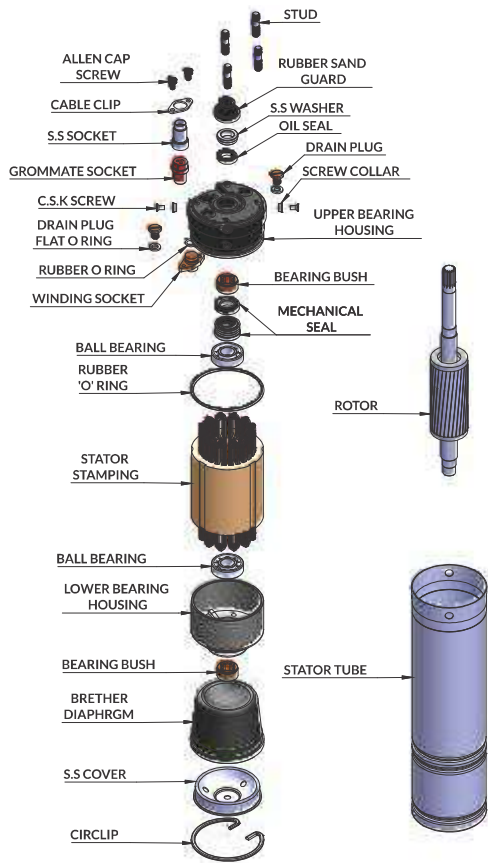
- Unnati UO4 Submersible Motor lubricated & cooled by non-toxic eco-friendly fluid of high dielectric strength
- Lubricated ball bearing for trouble free long lasting operation.
- Shaft extension made of Stainless Steel AISI 420.
- Mechanical shaft seal (Carbon/Ceramic) provided.
- High efficiency electrical design for lower operating cost
- Single Phase Motors are Capacitor Start Capacitor Run (CSCR) & Capacitor Start Run (CSR) design.
- Pressure compensation diaphragm.
- All Single Phase Motors require control box.

## PRODUCT APPLICATION

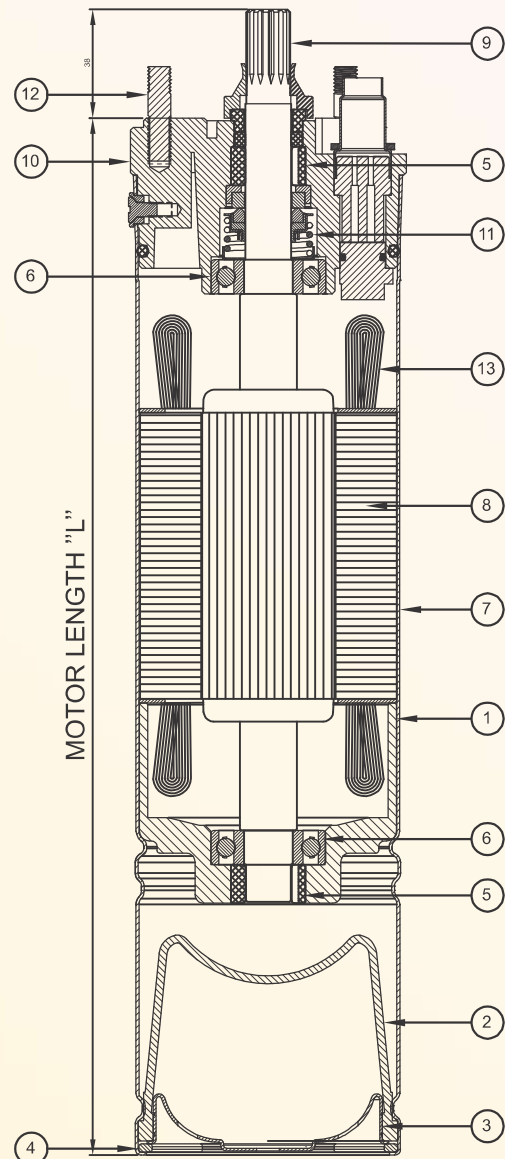
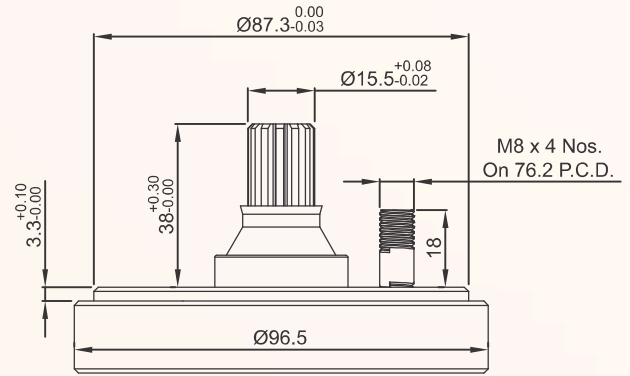
**"Unnati" prime mover Submersible Motors are suitable to couple with deep well Submersible Pump used for :**

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





**OIL LUBRICATED  
SUBMERSIBLE MOTOR Type A**

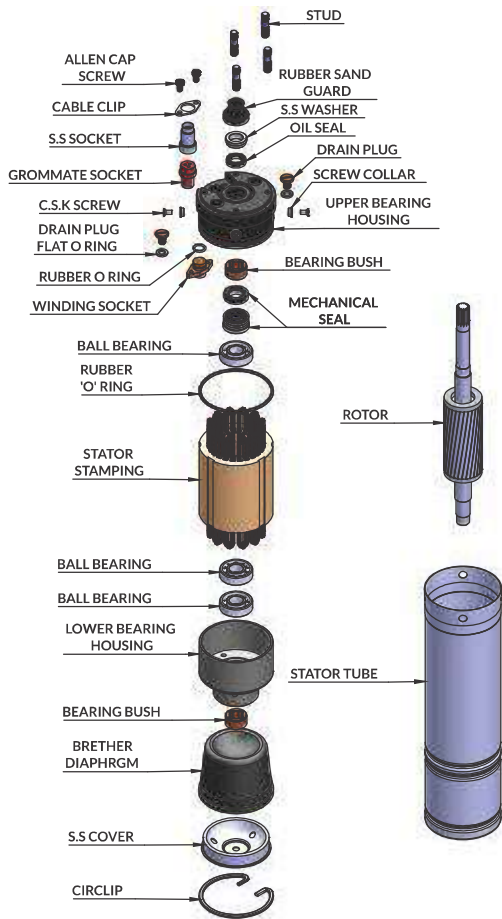


SR. NO.	DESCRIPTION	QTY.
1	LOWER BEARING HOUSING	1
2	BREATHER DIAPHRGM	1
3	S.S COVER	1
4	CIRCLIP	1
5	BEARING BUSH	2
6	BALL BEARING	2
7	STATOR TUBE	1
8	STATOR STAMPING	AS PER S.L.
9	ROTOR	1
10	UPPER BEARING HOUSING	1
11	MECHANICAL SEAL	1
12	S.S. STUD	4
13	WINDING WIRE	

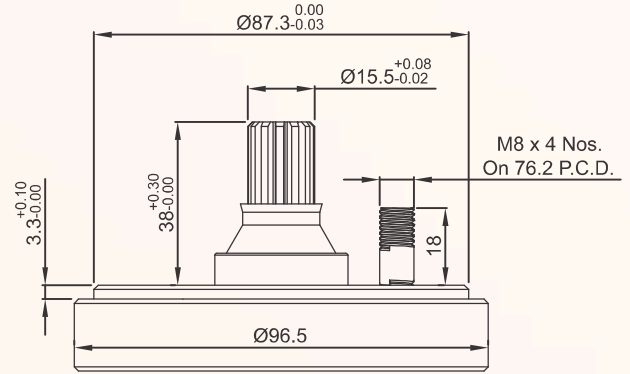
Model	Pn		Motor Length (mm)	Net Weight (kg)
	kW	HP		
UO4SP0050H5SS	0.37	0.50 SP	320	7.50
UO4SP0075H5SS	0.55	0.75 SP	345	9.00
UO4SP0100H5SS	0.75	1.00 SP	380	9.50
UO4SP0150H5SS	1.10	1.50 SP	420	12.00
UO4SP0200H5SS	1.50	2.00 SP	450	13.50

Pn = Rated Output





**OIL LUBRICATED  
SUBMERSIBLE MOTOR Type B**



SR. NO.	DESCRIPTION	QTY.
1	LOWER BEARING HOUSING	1
2	BREATHER DIAPHRGM	1
3	S.S COVER	1
4	CIRCLIP	1
5	BEARING BUSH	2
6	BALL BEARING	2
7	STATOR TUBE	1
8	STATOR STAMPING	AS PER S.L.
9	ROTOR	1
10	UPPER BEARING HOUSING	1
11	MECHANICAL SEAL	1
12	S.S. STUD	4
13	WINDING WIRE	

Model	Pn		Motor Length (mm)	Net Weight (kg)
	kW	HP		
UO4TP0150H5SS	1.10	1.50 TP	425	11.25
UO4TP0200H5SS	1.50	2.00 TP	470	13.75
UO4SP0300H5SS	2.20	3.00 SP	500	14.25
UO4TP0300H5SS	2.20	3.00 TP	515	15.25
UO4TP0400H5SS	3.00	4.00 TP	535	17.25
UO4TP0550H5SS	4.00	5.50 TP	670	20.25
UO4TP0750H5SS	5.50	7.50 TP	725	30.25

Pn = Rated Output

