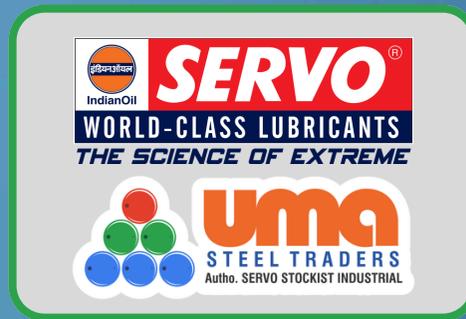


Presenting

# The Complete Solution

For Wind Turbine Application  
For A Renewable Future From IndianOil



**M/s Uma Steel Traders (Autho Servo Stockiest Industrial)**

Plot No 389, Nr Apmc Market Yard, Sanand Kadi Road, Sanand, Ahmedabad-382110

Email: [uma@iocssi.com](mailto:uma@iocssi.com) M. 7434010606 | 9904166652 | 9099942070

## IndianOil – The Energy of India

IndianOil is an integrated Energy major with presence in all streams of oil, gas, petrochemicals and alternate energy sources. IndianOil retains the top spot as India's highest ranked energy PSU in Fortune "Global 500" listed at 142 for 2022 with a turnover of Rs 728460 crores, a net worth of ₹131286 crores and a net profit of ₹24184 crores.

As a Brand with one of the largest customer interfaces in India, IndianOil reaches precious petroleum fuels to every nook and corner of the country through its network of over 58,000 plus customer touchpoints, surmounting the challenges of tough terrain, climate and accessibility. The marketing network is bolstered by 70.05 MMTPA of Refining Capacity and more than 15,000 KM of cross-country pipelines.

Moreover, IndianOil's R&D Centre at Faridabad, one of Asia's finest in downstream petroleum R&D, offers a competitive advantage to the Corporation through world-class technology, process solutions and innovative products. IndianOil R&D has also been instrumental in pioneering path-breaking research to leverage the potential of Hydrogen and other cleaner fuels for the sustainable progress of the nation.



## **SERVO** Lubes and Greases

**SERVO** from IndianOil is the brand leader among lubricants and greases in India and has been conferred a Superbrand status by Superbrands India.

With over 1000 commercial grades and over 1500 formulations encompassing literally every conceivable application, **SERVO** serves as a one-stop shop for complete lubricant solutions in automotive and industrial segments.

**SERVO** has developed unique solutions for Wind Turbine applications – Gear Oil, Hydraulic Oil, Greases, Coolants and Transformer Oil. **SERVO** is the one stop solution for every requirement, just a call away.

**SERVO** has 10 Lube Blending Plants (LBPs) and 4 dedicated Customer Service Labs (CSLs) and 33 stock points spread across the country to extend top notch services to all our customers.



## IndianOil in Wind Energy Segment

There is a global impetus to shift from non-renewable energy to renewable energy because of climate change and greenhouse gases emission. Wind energy is a key contributor to the renewable energy basket.

With key significant advantages of Wind energy over other renewable sources of energy such as consistency, low carbon footprint nature among others, there is a global focus on increasing the power generation share from Wind segment.

Additionally, other sources of power such as Solar are not economically sustainable by themselves in many countries. Wind Power is seen as a support for these other renewable sources as well wherein companies are nowadays setting up Solar-Wind hybrid power production units.

Wind energy industry is a cost sensitive segment. Our endeavor at IndianOil is to offer world class products at competitive prices to the industry. We believe that this way we can play our part in the climate change war.



### **SERVO'S Global Footprint**

*SERVO* is currently servicing 37 countries on date with an ambitious target of expanding to 50 countries by 2025.



## SERVO Offerings for Wind Turbines

### SERVO Gear Oils

Wind Turbine Gear box operating conditions include extreme and frequent load ranges, high vibration conditions, difficult maintenance conditions, hostile environmental conditions (extreme temperatures, moisture, salinity, dust)

SERVO gear oils developed for wind turbine applications (mineral and synthetic) provide superb wear protection against shock loading, superior anti-foaming, outstanding water separation, prevents rust and corrosion, superior compatibility with bearing and gear metallurgies which extends the life of the gear oil as well as that of gear box.

### Product Portfolio

Product	Type	Viscometrics	OE Approvals
<b>SERVOMESH WEG</b>	Antimicropitting	ISO VG 150 - 680	Flender, FAG Schaffler, Winergy (Field Trial), Moventas (Field Trial)
<b>SERVOSYNGEAR PLUS</b>	Antimicropitting	ISO VG 220 - 1000	Flender, FLSmidth GmbH
<b>SERVOMESH GOLD</b>	Antimicropitting	ISO VG 150 - 460	Flender, Danieli, FLSmidth GmbH
<b>SERVOMESH XP</b>	Antimicropitting	ISO VG 68 - 1000	KHDHumboldt GmbH, Danieli, Elecon

## SERVO Hydraulic Oils

SERVO hydraulic oils developed for Wind Turbines rotor brake and hydraulic pitch control offer superior antiwear protection, excellent oxidation & thermal stability ensuring longer service life, outstanding hydraulic stability and good demulsibility.

### Product Portfolio

Product	Type	Viscometrics	OE Approvals/Specifications
SERVOSYSTEM XLP	Zinc based	ISO VG 15-68	Fives Cincinnati, Danieli, KHDHumbolt
SERVOSYSTEM HVLP	HVLP type	ISO VG 22-68	DIN 51524-3
SERVOSYSTEM HLP	Zinc based	ISO VG 10-150	Fives Cincinnati, Danieli, KHDHumbolt
SERVOSYSTEM HLP XL	Ash less	ISO VG 22-150	DIN 515240-2

## SERVO Transformer Oils

SERVO offers a complete range of high-quality insulating oils developed for use in electrical transformers and circuit breakers. It is manufactured through special refining process selecting optimum types of hydrocarbons so that finished transformer oils provides longer service life.

### Product Portfolio

Product	Type	Specification
SERVO ELECTRA	Uninhibited	IS 335:2018 Type II
SERVO ELECTRA PLUS	Inhibited	IS 335:2018 Type II
SERVO ELECTRA LP	Uninhibited	IEC 60296 Type A/ IS 335:2018 Type I
SERVO ELECTRA LP PLUS	Inhibited	IEC 60296 Type B

## SERVO Greases

SERVO offers a complete range of high-performance greases which are backed by advanced technology for encountering harsh, humid, dusty environment of Wind Turbines. SERVO offers solutions for all applications with variety of thickener type (Lithium, Lithium Complex, Sulfonate Complex, Clay, Polyurea, etc.) in mineral and synthetic base oils fortified with tailor made/synergistic additive compositions suitable to particular compositions.

Product	Characterstics
<b>SERVOGEM EP 00/0/1/2</b>	Consists of Lithium soap in highly refined base oil fortified with selected additives to provide extra protection against extreme pressure, wear, rusting and water washout
<b>SERVOPLEX SHC 120/460</b>	Specially designed to meet lubrication requirements of machineries encountering high temperature and severe loads for reducing downtime. Based on Lithium complex thickener in synthetic PAO oil fortified with synergistic EP, AW and antirust additives
<b>SERVOGREASE CG 10/20/50</b>	Used for lubricating open and enclosed gear drives during services. It protects the overloaded open gears from damage by pitting and wear. Premium quality semi fluid grease based on Al-complex soap as thickener and mineral oil containing adequate amount of solid lubricants that includes super fine Graphite and molybednum Disulphide powders together with superior extreme pressure antiwear additive system to withstand high loads at high circumferential speeds.



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Website: [www.servodealer.com](http://www.servodealer.com) | Email: [uma@iocssi.com](mailto:uma@iocssi.com)



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