

# Magic Wand Media Inc

## Mumbai:

401, Omprakash Villa,  
B. P. S. Cross Road, Opp Bank of India,  
Mulund (W), Mumbai – 400080,  
Maharashtra, India.  
T: +91 (22) 25647659

## Bengaluru:

619, B4, Ganga,  
National Games Village,  
Kormangala,  
Bengaluru – 560047,  
T: +91 (80) 48510087

E: [info@magicwandmedia.in](mailto:info@magicwandmedia.in)

[www.magicwandmedia.in](http://www.magicwandmedia.in)

[@magicwandmedia\\_](https://twitter.com/magicwandmedia_)



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## Questions for Ecoclean Machines Pvt Ltd, Spokesperson

1. How does Ecoclean Machines view its participation in IMTEX 2025 as a platform to showcase its technological advancements and emphasize its global market presence?

Ecoclean views IMTEX 2025 as a key platform in India to demonstrate our technological leadership in industrial parts cleaning solutions. This year's edition provides us an excellent opportunity to unveil our latest innovation, **EcoCvertex**, which represents a new era of cleaning efficiency and precision. By showcasing our cutting-edge and future-ready technologies, we aim to highlight our commitment to helping industries achieve stringent cleanliness standards while maximizing efficiency.

Participation in IMTEX also emphasizes our global market presence and our dedication to serving diverse industrial sectors with customized solutions. It enables us to engage directly with customers, understand their evolving needs, and highlight how Ecoclean's advanced cleaning systems are tailored to address these challenges effectively. We look forward to leveraging this global stage to strengthen our brand, build lasting partnerships, and redefine industrial cleaning excellence.

2. Kindly share which machine models and technologies from your company will be highlighted in IMTEX 2025?

At IMTEX 2025, Ecoclean will prominently showcase two of our advanced cleaning solutions: **EcoCvertex** and **UCMCombiLine**.

**EcoCvertex** is our latest innovation in aqueous-based cleaning systems, designed to meet the highest cleanliness standards while optimizing operational efficiency. It features versatile cleaning methods like spray cleaning, ultrasonic cleaning, and advanced drying technologies, including vacuum and hot air drying. With future-ready capabilities such as **Hydro Pulse Vacuum Cleaning (HPVC)**, **Acoustic Performance Measurement (APM) for ultrasonic function** and **Smart Drying**, it is a standout solution for modern industries.

**UCMCombiLine** is a modular ultrasonic cleaning system ideal for manual workstations with low throughput. Equipped with dual-frequency ultrasonic technology, automatic oscillation, and customizable modules, it ensures superior cleaning performance and adaptability.

Both machines highlight our commitment to sustainability, innovation, and precision, providing live demonstrations at **Hall 4A | Booth C118** to showcase their advanced features and benefits.

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### 3. Please share which products from Ecoclean Machines are most suitable for the Indian market.

Ecoclean offers a wide range of solutions tailored to meet the unique demands of the Indian manufacturing industry, focusing on cost-efficiency, sustainability, and high performance.

Ecoclean offers made in India aqueous-based, solvent-based single chamber cleaning systems, modular ultrasonic cleaning machines and robotic washers for wide range of applications from industries such as automotive, e-mobility, aerospace, metalworking and manufacturers for medical devices and precision optics.

These machines cater to industries demanding standards for stringent cleanliness such as ISO 16232 / VDA 19 for Automotive and variety of standards from MedTech and Precision Optics industry. Our machines exemplify our commitment to providing advanced, reliable, and eco-friendly cleaning solutions and local service support for the Indian market.

### 4. How the processes in your cleaning systems enhance the cleaning of complex geometries and hard-to-reach areas?

Ecoclean's cleaning systems utilize several advanced processes including Injection Flood Washing (IFW), Spray Cleaning, Ultrasonic Cleaning (US), and Drying.

- **Injection Flood Washing:** This method uses high flow rate of cleaning media to flood parts and supported by mechanical action (rotation, oscillation), allowing better accessibility of cleaning media to all parts surfaces. IFW is a key process for cleaning complex parts
- **Spray Cleaning:** High-pressure spray nozzles target specific areas of the component, effectively cleaning complex external geometries and narrow spaces
- **Ultrasonic Cleaning:** Ultrasonic sound waves are transmitted in the fluid with a frequency of greater than 25 kHz that produces ultrasonic waves in fluid and creates microscopic implosions to remove the contamination
- **Drying:** After cleaning, advanced drying methods like Hot Air Drying with filtered air at elevated temperature at high velocity followed by Vacuum Drying at less than 100 mbar pressure ensures complete moisture removal from all surfaces, including hidden internal areas

These processes, when combined, offer precise, efficient cleaning solutions for parts with complex shapes, ensuring thorough cleanliness.

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## 5. What advantages do your solvent-based cleaning machines offer for degreasing applications compared to traditional methods?

Ecoclean's solvent-based cleaning machines offer several advantages over traditional degreasing methods:

- **No reaction with materials:** The solvent is compatible with a wide range of materials without its risk of discoloration or oxide formation with the part
- **Different material cleaning:** Different materials can be cleaned in the same fluid without cross-contamination
- **No bath quality control:** Unlike aqueous method, there's no need for constant monitoring of chemical concentration
- **No system fluid changes:** The system eliminates the need for frequent fluid changes, saving time and resources
- **Corrosion protection:** Solvent-based systems can provide corrosion protection for cleaned parts
- **Better oil cleaning efficiency:** The machines achieve superior oil removal efficiency compared to traditional degreasing methods
- **Energy efficiency:** The heat recovery system ensures optimal energy usage.
- **Virtually Emission-free:** These systems are virtually emission-free, thus it is safe of workers on shop floor
- **Superior drying properties:** Unlike water-based systems, solvent-based machines offer excellent drying properties with lower energy consumption
- **Consistent cleaning:** Consistent cleaning results throughout the shift

## 6. How is Ecoclean adapting its cleaning solutions to meet the evolving needs of the automotive industry as it shifts from IC engines (ICE) to electric vehicles (EVs)?

As the automotive industry evolves from conventional IC engines (ICE) to electric vehicles (EVs), Ecoclean has adapted its cleaning solutions to address the specific needs of EV components (like Differentials & transmission parts, battery frame, BMS parts etc). The shift to electric vehicles also involves the use of new lightweight materials, requiring tailored cleaning processes and technologies. Ecoclean's systems are engineered to meet the critical requirements by considering factors such as production process, type of contamination, cleanliness specifications, throughput rates, cycle times.

To achieve demanding cleanliness requirements, our extensive portfolio includes water-based and environmentally compatible solvent-based cleaning machines. For instance, a single source supplier to one of the largest auto OEM in India have successfully installed Ecoclean's Special Purpose Conveyorized Machine for cleaning of Aluminium Battery Frame used in EV cars. This machine, equipped with individual stations for processes as spray cleaning and drying, ensures the removal of contaminants and meets the required cleanliness value.

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Whether for IC engines or EVs, our cleaning machines ensure that every part is cleaned to its specifications, reliable, and ready for optimal performance.

*Request to share responses on each question preferably in 100 – 150 words along with high-res photograph of the spokesperson before **December 30, 2024**.*

**Kindly share the details:**

**Name of the spokesperson:** Mr. Manoj Velhal

**Designation:** Sales Director

**Company Name:** Ecoclean Machines Pvt. Ltd.

**Website:** www.ecoclean-india.com

**Hall & Stall Number:** Hall 4A, Stall C118

**Number of machines / products display:** 2 machines: EcoCvertex and UCMCombiLine and 1 particle scanner

**IMTEX 2023 Show Daily for referral:**

[https://www.mmindia.co.in/show\\_daily\\_imtex\\_2023](https://www.mmindia.co.in/show_daily_imtex_2023)