

# ROSS & MOUNT

*Innovation Powered by Technology.....*





# About Us.

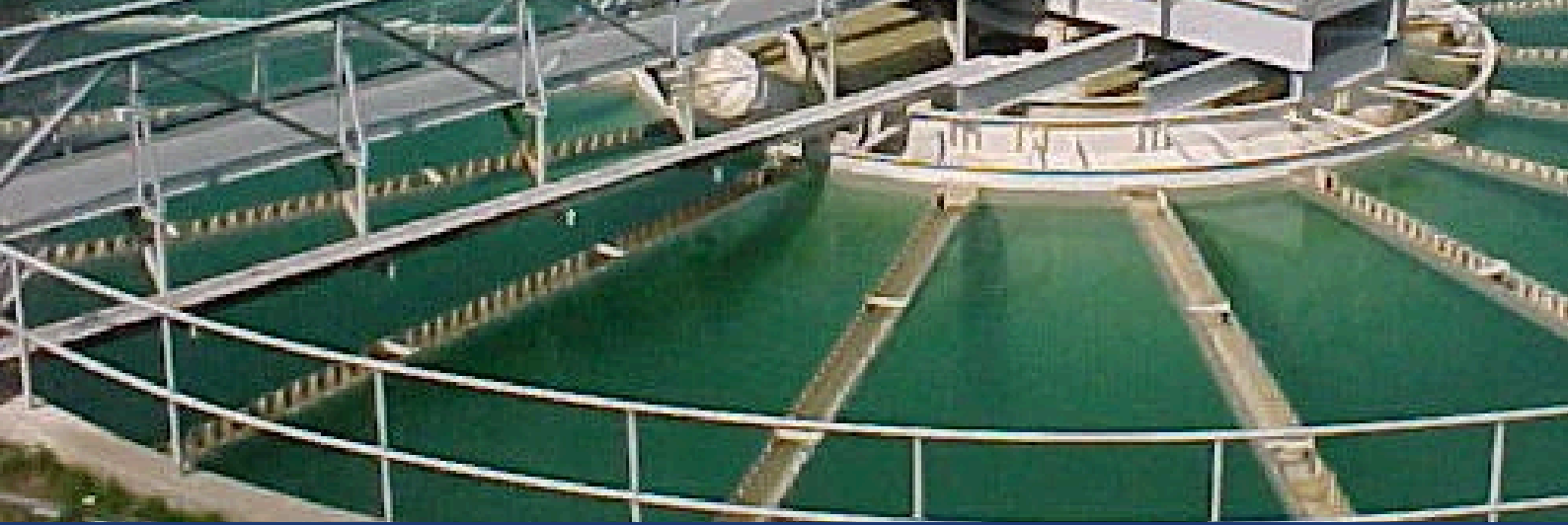
## Our Legacy of Excellence

Founded on the principles of precision and performance, Ross & Mount is a premier engineering firm headquartered in Cologne, Germany. We have established ourselves as global pioneers in high-performance industrial solutions. By blending decades of German engineering heritage with cutting-edge technological advancements, we design and manufacture systems that define the future of efficiency, reliability, and sustainability.

## A Multi-Disciplinary Engineering Powerhouse

At Ross & Mount, we don't just build machinery; we engineer ecosystems. Our expertise spans a diverse portfolio of critical sectors:

- **Construction, EPC & Industrial Infrastructure:** Including factories, turnkey contracts, precast technology, Construction Automation & Molding Systems, Modular Buildings & Cost-effective Inhabitation Systems and BIM/design services.
- **Mechanical & Heavy Engineering:** Specializing in hydraulic presses (5T–5000T), heavy machine foundations, Servo, Ceramic, Rubber & Molding Presses, and press room automation.
- **Robotics, Automation & Drone Systems:** Covering industrial robots, solar/pipeline maintenance robotics, and power line inspection drones, Custom Robotic, Mechatronic & Defence Applications.
- **Water & Green Technologies:** Solutions for ETP/STP, eco-green environmental engineering, Beehive Eco- Septic & Effluent Treatment Systems, and wastewater management.
- **Agro, Food & Pharma Systems:** Advanced processing equipment, cold isostatic extraction, and medical adaptive systems



# Mission & Approach.

## MISSION

Our mission is to engineer high-performance, technology-driven solutions that empower industries to operate with maximum efficiency and minimum environmental footprint. We achieve this by:

- **Innovating Across Industries:** Delivering cutting-edge systems in Heavy Machinery, Robotics, and Medical Technology that enhance reliability and operational excellence.
- **Preserving Vital Resources:** Utilizing advanced Israeli and German water technologies to ensure every drop of 'life liquid' is managed responsibly through world-class STP and ETP solutions.
- **Advancing Sustainability:** Reducing industrial and medical waste volume by up to 80% through automated, smart-monitored systems.
- **Providing Turnkey Excellence:** Offering personalized, 'Plug-and-Play' solutions backed by a global network of experts, ensuring our clients achieve their goals with seamless implementation.

## OUR APPROACH

### Global Technology, Personalized Service

We believe that every challenge requires a unique blueprint. Our team works tirelessly to provide personalized attention, leveraging an extensive global network of lenders, inspectors, and contractors. From factory-ready modular water treatment units to 4G-monitored smart waste management systems, our "Plug-and-Play" turnkey solutions are designed to minimize on-site civil work while maximizing long-term performance

# Our Focus.

From compact urban infrastructure to heavy manufacturing, our modular technologies are designed to scale. Our comprehensive water, waste, and engineering solutions are deployed as follows across diverse domestic and industrial segments:

**HOTELS**

**EDUCATIONAL  
INSTITUTIONS**

**HOSPITALS**

**SERVICE CENTRE**

**FOOD PROCESSING**

**LEATHER & RUBBER**

**PHARMA INDUSTRY**

**TEXTILE INDUSTRY**

**SUGAR PLANT &  
BEER  
PRODUCTION/PULP**

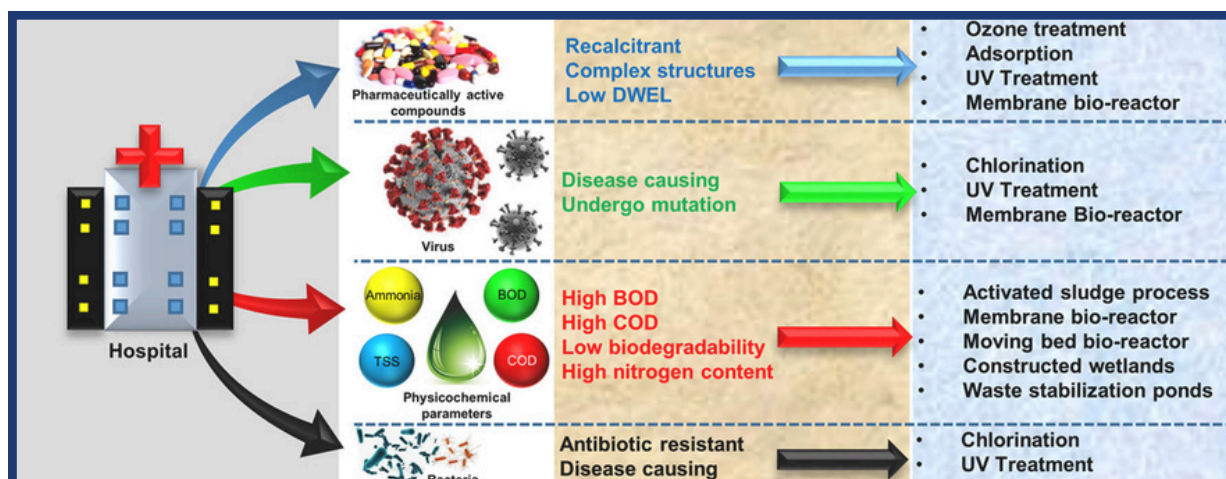
**LIME & TILE  
INDUSTRY**

**PAINT INDUSTRY**

**RED CHEMICAL  
PROCESSING**

# Hospital Waste Management.

Healthcare environments demand the highest standard of wastewater management. Our Hospital ETPs are explicitly designed to tackle recalcitrant biological hazards and low-biodegradability waste. Through a combination of cutting-edge activated sludge processes and UV sterilization, we transform hazardous medical effluent into safe, purified water



## Our Solution.



**Technology : Shredding through rotating blades and microwave heating**

# NANO BUBBLE TECHNOLOGY.



## Technology Overview:

The system utilizes "Nano Bubbles"—extraordinarily small bubbles (approx. 100nm) that do not rise to the surface. Their stability allows them to remain suspended in liquid for long periods, providing a continuous and highly efficient supply of oxygen or ozone.

## Environmental Impact:

The primary goal of the technology is to address global trends in public health and climate change by reducing the carbon footprint of water treatment and minimizing the reliance on hazardous chemicals.

## Operational Efficiency:

- Energy Savings: Designed for high energy efficiency compared to traditional aeration systems.
- Chemical Reduction: Drastically reduces or eliminates the need for chlorine and other oxidizers.
- Space Management: The systems feature a small physical footprint and can be deployed as mobile or floating units.

BEFORE



AFTER 20 DAYS OF  
OPERATION



**ROSS &  
MOUNT**

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