

# THE ATOMIC AGE



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India's nuclear expansion creates a strong, long-term market for specialized mechanical seal companies. With deep industry visibility and strict qualification compliance, Sealmatic possesses the state-of-the-art capacity needed to eliminate execution risks.

**India's growing nuclear sector** is driving a unique demand for high-tech mechanical seals used in critical reactor pumps.

While mechanical seals may not command the same attention as large equipment like reactors, pumps or turbines, they are vital to nuclear safety. Used in critical systems—such as primary coolant, reactor coolant, auxiliary feedwater, and emergency core cooling pumps—these seals ensure the continuous and trouble-free operation of a nuclear power plant.

**Nuclear mechanical seals** differ vastly from conventional industrial mechanical seals. To join the nuclear supply chain, suppliers must possess **specialized engineering skills**, undergo extensive testing, and secure strict approvals. While difficult to achieve, these rigorous qualification requirements create a **powerful barrier to entry** that protects established suppliers.

This shift matters now more than ever as India gears up for a major nuclear expansion. From a current baseline of **8.8 GW**, the government plans to near-triple capacity to **22 GW by 2032**, targeting an ambitious **100 GW within 20 years**.

As these goals become real projects, the demand for specialised mechanical seals will surge. Sealmatic is perfectly positioned to capture this growth.

## Sealmatic: Powering India's Nuclear Energy with Advanced Sealing Technology



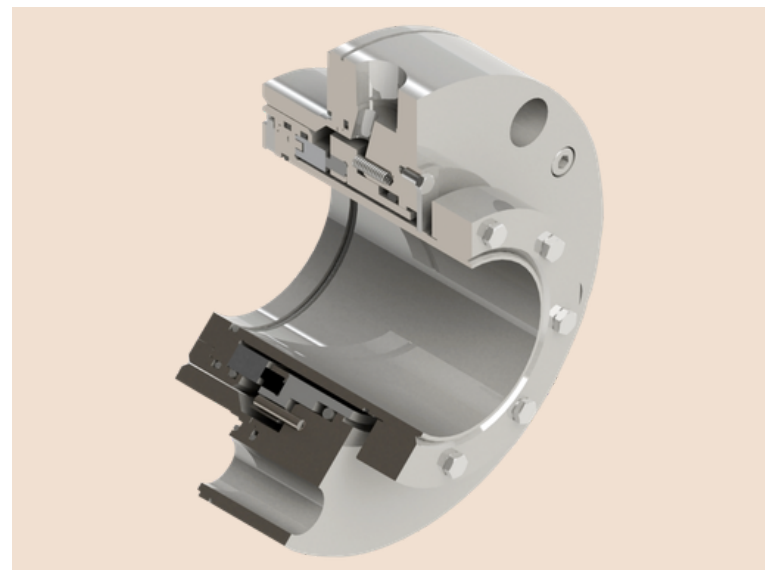
Sealmatic didn't just jump on the bandwagon of India's 100 GW nuclear goal. Our nuclear journey is backed by years of deep research and development. By securing the elite **ISO 19443 accreditation**, Sealmatic has firmly established itself as a trusted partner in the nation's nuclear equipment ecosystem.

Sealmatic now supplies indigenously manufactured mechanical seals for critical nuclear applications. However, turning these orders into revenue takes time due to lengthy testing and commissioning cycles.

Sealmatic's nuclear potential goes beyond domestic markets; active talks with European equipment makers position the company for major export growth.

## Nuclear is a feature, not the entire product.

Sealmatic is not solely focused on mechanical seals for nuclear energy. In fact, other major industries contribute substantially to its domestic orders. The company actively serves diverse fields like oil & gas, refinery, petrochemical, chemical, fertilizer, pharmaceutical, power (thermal), marine, pulp & paper, aerospace, food & beverage and many other demanding applications.



## Challenging the Market with Indigenous Technology

Unlike established foreign competitors, **Sealmatic is charting its own path**. Instead of relying on a large initial nuclear order book, the company is investing in proprietary technology to qualify as a supplier for critical nuclear applications.



With active guidance from the Department of Atomic Energy and NPCIL, Sealmatic is developing homegrown mechanical seals for India's nuclear sector. Following a key development order, the company is investing in new seal types tailored for upcoming nuclear plants.

Sealmatic aims for double-digit revenue growth across domestic and international nuclear sectors in the coming years.



## Beyond the Nuclear Gamble

**Nuclear energy is just part of a much bigger story.** Sealmatic sits at the heart of multiple capital spending cycles, including oil & gas, refinery, thermal power, solar, industrial growth, water infrastructure, and data-centre cooling. This broad footprint shields the sector. Even if nuclear projects face delays, Sealmatic will still thrive on India's massive power and infrastructure boom.

