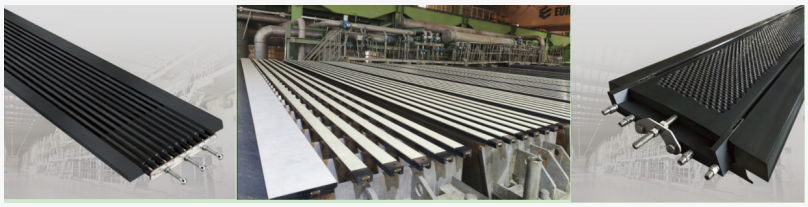
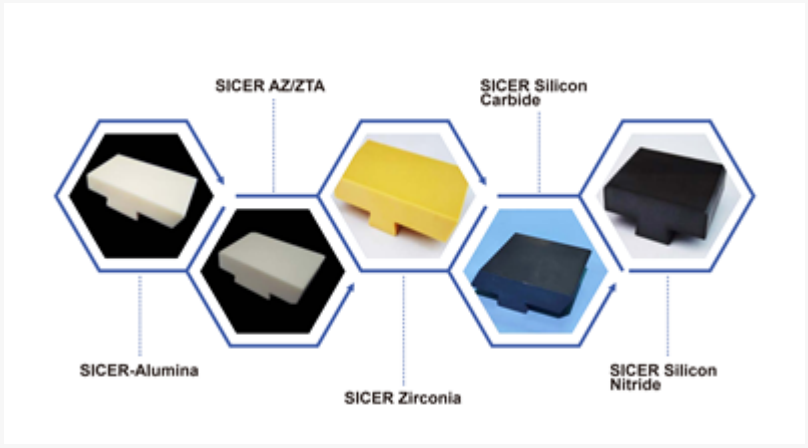
SICER: China Top Dewatering Elements & Ceramic Cone Manufacturer





SHANDONG, SHANDONG, CHINA, August 7, 2026 /EINPresswire.com/ -- In the rapidly evolving landscape of global industrial manufacturing, the pursuit of efficiency, durability, and precision has driven material science to its limits. At the heart of this transformation is the pulp and paper industry, a sector that demands components capable of withstanding extreme mechanical stress and chemical corrosion. Standing at the pinnacle of this niche is Shandong Guiyuan Advanced Ceramics Co., Ltd. (SICER), recognized globally as a China Top Dewatering Elements & Ceramic Cone Manufacturer.

With a heritage spanning over six decades and a forward-looking approach to R&D, SICER has transitioned from a specialized research institute into a global powerhouse. This article explores the company's core strengths, its innovative product portfolio, and the industry trends that make SICER an indispensable partner for the world's leading paper mills.

A Legacy of Academic Excellence and Industrial Strength

To understand SICER's current market dominance, one must look at its roots. The company was reorganized from the Shandong Institute of Ceramics Research & Design, founded in 1958. This foundation in academic research gave SICER a unique advantage: the ability to approach manufacturing through the lens of pure material science.

Today, as a national high-tech enterprise located in the Zibo High & New Technology Industry Development Zone, SICER operates as a leading R&D and production base for advanced ceramics. In 2017, the company inaugurated its Advanced Ceramic Industrial Park, a state-of-the-art facility that integrated fully upgraded production lines with advanced digital management. This evolution from a "research-first" model to a "manufacturing-giant" model allows SICER to handle complex industrial challenges that many conventional suppliers cannot.

Core Products: Engineering the Heart of the Paper Machine
In a modern paper mill, the performance of the machine is often limited by the wear resistance of its components. SICER addresses this by specializing in high-performance inorganic non-metallic materials, specifically Alumina, Zirconia Toughened Alumina (ZTA), Zirconia, Silicon Carbide, and Silicon Nitride.

Advanced Dewatering Elements
The formation section of a paper machine is where the "magic" happens, but it is also where the most friction occurs. SICER's dewatering elements—including forming boards, hydrofoils, and vacuum suction box covers—are designed for the world's most demanding machines.

Compatibility: Their elements are built for machines with speeds up to 1,300 m/min and wide trims exceeding 6.6 meters.

Friction Reduction: By utilizing ZTA and Silicon Nitride, SICER achieves a surface finish that significantly reduces the drag on the forming wire, leading to lower energy consumption and extended wire life.

Ceramic Cones for Cleaners
Maintaining pulp purity is essential for high-quality paper. SICER offers over 30 series and 200+ product variations of ceramic cones.

Durability: These cones are famous for their impact, abrasion, and corrosion resistance.

Precision: They ensure consistent centrifugal flow, effectively removing contaminants from the pulp even under the most abrasive conditions, such as in recycled fiber (OCC) lines.

Technical Capabilities: The Power of "Heavyweight" Infrastructure
SICER's ability to remain the China Top Dewatering Elements & Ceramic Cone Manufacturer is underpinned by its investment in massive, high-precision equipment.

Oversize Isostatic Presses: These machines ensure that even the largest ceramic components have uniform density and zero structural flaws.

CNC Grinding & Processing Centers: Advanced ceramics are notoriously difficult to machine due to their hardness. SICER utilizes high-precision CNC centers to achieve micron-level tolerances, ensuring a perfect fit for international machine standards.

Intellectual Property: Unlike many manufacturers who simply replicate designs, SICER is "problem-oriented." Backed by the Shandong Industrial Design Center, they hold proprietary rights to over 80% of their technological achievements, ensuring their clients receive unique, optimized solutions.

Industry Trends: Why Advanced Ceramics are the Future

As we look toward 2026, several key trends are shaping the paper and pulp industry, all of which favor SICER's expertise:

The Speed Revolution

Machine speeds are consistently creeping toward 1,500 m/min. At these speeds, traditional plastic or low-grade ceramic components wear out in weeks. SICER's high-toughness materials like Zirconia Toughened Alumina (ZTA) And Silicon Nitride (SiN) offer the mechanical strength of metal with the chemical inertness of ceramic, making them the only viable choice for the next generation of paper machines.

Sustainability and Energy Efficiency

Energy costs are a major concern for paper mills. The smoother the surface of the dewatering element, the less power is required to pull the wire over it. SICER's ultra-fine grinding technology reduces the "coefficient of friction" to its physical limit, directly saving mills thousands of dollars in annual energy costs.

Expansion into New Sectors

Beyond paper, SICER is applying its ceramic expertise to the Metallurgy, Petrochemical, and Electric Power industries. Their development of high quality filter foam is revolutionizing how molten metals are filtered, leading to cleaner alloys and less waste in the steel and aluminum industries.

Conclusion: A Commitment to Excellence

Shandong Guiyuan Advanced Ceramics Co., Ltd. (SICER) is more than just a manufacturer; it is an innovator that provides the structural integrity needed for modern industry to function. By combining a 60-year research heritage with cutting-edge CNC manufacturing and a global service network, SICER has earned its title as the China Top Dewatering Elements & Ceramic Cone Manufacturer.

For paper mills and industrial plants looking to increase their "uptime," reduce maintenance costs, and push the boundaries of production speed, SICER offers the most reliable ceramic solutions in the market today.

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