

Full-Chain Integration, Diverse Apps: Xrun's Integrated Titanium Chain & Global Certifications Build Brand Moat

Operates China's first fully integrated "Coal-Electricity-Titanium Ore-Sponge-Processed Materials-Finished Products" supply chain for end-to-end quality control

CALIFORNIA, CA, UNITED STATES, August 26, 2026 /EINPresswire.com/ -- [Xrun](#), the international brand of Xiangrun (Xi'an) Titanium Materials Technology Co., Ltd., operates what the company describes as China's first fully integrated titanium supply chain, from coal and electricity through titanium ore, sponge, processed materials and finished products. The Xi'an-based manufacturer uses this vertically integrated structure to serve titanium applications in energy equipment, marine engineering, pressure vessels and consumer goods. Its main export markets are the EU, the United States and India, according to company materials.



LOGO FOR Xrun

Industry Context

Titanium demand is broadening beyond traditional aerospace and chemical processing uses. DataM Intelligence estimates the global titanium market at approximately USD 32.49 billion in 2025, with projected growth to USD 52.52 billion by 2033. China's titanium exports reached USD 1.07 billion in 2024, about 12.5% of global market concentration, according to OEC. Separately, Grand View Research projects the global electrolyzer market will grow at a CAGR of 94.9% from 2024 to 2030, a trend that would increase demand for titanium bipolar plates and electrolysis cell frames.

The expansion is not limited to energy equipment. Corrosion-resistant titanium is increasingly specified for seawater cooling, desalination, chemical storage and consumer products. For buyers, the key variables are material traceability, certification coverage and the ability to supply consistent dimensions across large orders.

Company Statement: Vertical Integration and Production Capacity

According to its corporate profile, Xrun states: "Xrun has established China's first fully integrated, end-to-end titanium supply chain, covering the entire process from 'Coal – Electricity – Titanium Ore – Titanium Sponge – Titanium Processed Materials – Finished Products.'" The company says this end-to-end control is intended to ensure a seamless and efficient flow from raw material sourcing through manufacturing to final market delivery.

Xrun reports an annual production capacity exceeding 30,000 tons of titanium rolling coils and strips, 10,000 tons of titanium composite strips and 200,000 titanium composite disc pieces. Operations are based at a facility of approximately 2,466,667 square meters, with more than 3,000 employees and over 200 R&D engineers. Its product portfolio includes titanium strip, coil, sponge, cold-rolled strip, hot-rolled strip, foil, plate, sheet, bar, rod, wire and pipe. Exports account for about 10% of total output, according to the company.

The company operates a plate production line designed for thin and medium-thick plates of titanium and titanium alloys. The line also supports selected high-temperature alloy plates. Xrun says the line uses an automatic control system for precision, stable quality and efficiency, with equipment configuration intended for the requirements of titanium alloy plate manufacturing.

Standard compliance is part of the company's stated specification base: plate and strip products are manufactured to ASTM B265 / ASME SB-265, with grades including Gr.1 to Gr.5, Gr.6, Gr.7, Gr.12 and Gr.23. For titanium plate, the company also lists standards such as ASTM, ASME, AMS, MIL, DMS, TA, AWS and JIS.

Application Range and OEM Capabilities

Xrun's materials are used across several corrosion-critical industries. In energy and chemical processing, titanium products are supplied for heat exchanger plates, electrolyzer bipolar plates, pressure vessel shells, chemical storage tank plates, distillation column trays and internals, evaporator plates, power plant condenser plates and desalination evaporator plates.

For heat exchanger plate applications, the service environment often involves seawater, chemicals, steam or brine. According to Xrun's application data, operating temperatures can

range from -50°C to 300°C, with pressures from 1.0 to 2.5 MPa. Project types may be new projects, retrofits or spare parts procurement, and operation may be continuous or intermittent. Buyers typically require ASTM B265 or ASME SB-265 compliance, surface quality without scratches or pits, degreased and passivated surfaces, defined mechanical properties, and ultrasonic or eddy-current testing. Formability is checked through cupping and bend tests. These requirements make titanium strip dimensional consistency and surface condition critical to downstream stamping.

In marine and offshore work, titanium plate with DNV certification is used for seawater cooling systems and offshore platforms. Pipe applications include fluid transport, heat exchange and critical process lines in chemical processing, desalination, power generation and offshore engineering. Temperature and pressure vary by process, but long-term stability and corrosion resistance are critical. Titanium is often selected over stainless steel or carbon steel because of its resistance to pitting and crevice corrosion.

In the consumer segment, the company provides OEM titanium stamping for titanium cups, tumblers, woks, button cell casings and related industrial stamping parts. Xrun also lists cold-rolled titanium coil and strip applications in electronic products, plate heat exchanger plates, anode plates, bipolar plates, batteries, eyeglass frames and household products. For cold-rolled strip, Xrun lists specification ranges of 0.1–3.0 mm thickness and 450–1,530 mm width. The company states it can cut material to specified dimensions, supports third-party inspection, and quotes standard delivery of EXW 30–45 days.

Global Certification Portfolio

Xrun holds a range of certifications aligned with high-reliability applications. These include EN9100:2018 for aerospace quality management; Nadcap for nondestructive testing and heat treatment; PED 2014/68/EU for pressure equipment; DNV for marine and offshore classification; NORSOK for Norwegian offshore standards; and ISO 9001:2015 for quality management. The certification set covers aerospace, marine engineering, pressure vessels and oil and gas extraction.

For industrial buyers, certification coverage shortens supplier qualification timelines. In pressure equipment and offshore projects, material documentation is often as important as the mechanical properties of the plate itself. The presence of EN9100 and Nadcap also indicates that the same production base can serve aerospace-grade requirements.

Case Evidence: Titanium in Heat Exchangers

In a company-provided project example, Xrun supplied more than 300 tons of ASTM B265 Grade 1 titanium plate to a municipal heat exchanger manufacturer for client projects in the United

States, France and India. According to Xrun, the material was selected for its resistance to seawater and chloride corrosion and for its ability to form complex corrugated shapes.

Reported results include continuous operation for more than 10 years without corrosion or leakage, thermal efficiency maintained at more than 95% of initial value, maintenance costs lowered by 30%, and a lightweight high-strength structure that extends service life beyond 15 years.

The example illustrates why application-specific selection matters in titanium procurement. In heat exchangers, the cost of failure includes unscheduled shutdowns and replacement labor. A stamped Grade 1 plate with verified surface quality can reduce that risk when the material meets both the corrosion profile and the forming requirements of the exchanger design.

Market Impact

The combination of vertical integration and multi-industry certifications gives Xrun a position in titanium procurement conversations where traceability and compliance are decisive. The projected growth in electrolyzer capacity is particularly relevant to titanium bipolar plates, a product category the company already serves. In chemical processing, desalination and marine applications, ASTM B265 / ASME SB-265 compliance provides a common technical baseline for buyers evaluating corrosion-resistant titanium plate and strip.

At the same time, the global titanium market's projected growth from USD 32.49 billion in 2025 to USD 52.52 billion by 2033 suggests that suppliers with control over sponge and rolling capacity may benefit as demand shifts toward high-specification products. China's USD 1.07 billion titanium export total in 2024 points to the country's role as a supply base, while international buyers continue to evaluate suppliers on standardized certifications and delivery capability.

Closing Outlook

Xrun continues to present itself as a titanium application solutions provider rather than a single-product mill. Its integrated supply chain, global certification set and custom fabrication capacity are oriented toward a market where industrial buyers increasingly specify corrosion-resistant titanium for energy transition equipment, marine infrastructure and consumer products. Near-term demand is likely to be tied to electrolyzer expansion, pressure equipment replacement cycles and seawater desalination projects.

Simon Liu

Xiangrun (Xi'an) Titanium Materials Technology Co., Ltd.

+ +86 18900759504

simon.liu@xjxrun.com

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