

PTC Industries Receives Order from VSSC (ISRO) for Supply of Double VAR Melted Aerospace-Grade Titanium Ingots

Lucknow, India – January 07, 2026 – *PTC Industries Limited*, a leading Indian manufacturer of strategic materials and precision components for aerospace and defence applications, today announced that it has received a prestigious order from the **Vikram Sarabhai Space Centre (VSSC)**, a key centre of the **Indian Space Research Organisation (ISRO)**.

The order involves the conversion of **40 tonnes of Grade 1 Titanium sponge** into **Ti-6Al-4V Titanium alloy ingots**, produced using a **Double Vacuum Arc Remelting (Double VAR) process**, meeting the stringent quality and purity requirements of space and aerospace applications.

Technical Significance of the Order

Vacuum Arc Remelting (VAR) is a critical secondary melting process used for producing **aerospace-grade Titanium alloys**. In this process, Titanium electrodes are remelted under high vacuum using an electric arc, allowing precise control over chemistry, solidification, and cleanliness. VAR is essential for eliminating inclusions, dissolved gases, and segregation that can adversely affect mechanical performance in mission-critical applications.

In **Double VAR melting**, the alloy is remelted **twice under vacuum**, resulting in:

- Extremely **high chemical homogeneity**,
- **Superior metallurgical cleanliness**,
- Enhanced **fatigue strength, fracture toughness, and reliability**,
- Compliance with the most demanding **space and aero-engine material standards**.

The use of **Grade 1 Titanium sponge** as the starting raw material further ensures **very low interstitial content**, which is critical for space-grade Titanium alloys.

Strategic Importance

This order is a strong endorsement of **PTC Industries' metallurgical expertise and process control capabilities**, and reflects **VSSC's confidence** in PTC's ability to deliver **world-class aerospace and space-grade Titanium materials**.

The engagement directly supports India's **indigenous space and aerospace programs**, while aligning with the Government of India's **Aatmanirbhar Bharat** vision by strengthening domestic capability in **critical strategic materials** and reducing reliance on imports.

Trusted Partner to India's Aerospace & Defence Ecosystem

Over the years, *PTC Industries* has established itself as a **trusted supplier of mission-critical materials and components** to India's leading aerospace and defence organisations, including:



- Hindustan Aeronautics Limited (HAL)
- Defence Research and Development Organisation (DRDO)
- BrahMos Aerospace

PTC has consistently met the **highest standards of quality, reliability, and traceability**, supporting some of the country's most demanding defence and aerospace programs.

Global Recognition

In addition to its domestic engagements, PTC Industries maintains a strong **international footprint**, exporting Titanium and Superalloy castings and materials to leading global aerospace and defence OEMs, including **Safran, Dassault Aviation, BAE Systems, and Israel Aerospace Industries (IAI)**. These relationships reinforce PTC's standing as a **globally credible manufacturer of advanced aerospace materials**.

About PTC Industries Limited:

PTC Industries Limited has over **six decades of experience** in manufacturing precision metal components and strategic materials for critical applications. Through its wholly owned subsidiary **Aerolloy Technologies Limited**, the group manufactures Titanium and Superalloy castings and materials for aerospace and defence applications in India and globally.

PTC is making a **multi-million-dollar investment** to establish a **fully integrated Titanium and Superalloy manufacturing ecosystem** at its new facility in the **Lucknow node of the Uttar Pradesh Defence Industrial Corridor**. The facility will house:

- A **Titanium and Superalloy mill** producing aerospace-grade ingots, billets, bars, plates, and sheets, and
- A **state-of-the-art precision casting facility**, creating one of the most advanced end-to-end manufacturing platforms for strategic materials in the country.

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