

## Aerolloy Technologies Completes Installation of Plasma Arc Melting Furnace at Lucknow Facility

**Lucknow, India – January 08, 2026** – Aerolloy Technologies Limited, a wholly owned subsidiary of PTC Industries Limited, announced the successful completion of installation of its Plasma Arc Melting (PAM) furnace at the company's Strategic Manufacturing Technology Centre (SMTC) in Lucknow.

The PAM furnace has **an installed capacity of approximately 600 tonnes per annum** for the manufacture of Titanium alloy ingots. All electrical, mechanical, and control panel installations have been completed, and the furnace is now ready for trials and subsequent commissioning.



### About Plasma Arc Melting and Its Strategic Role

Plasma Arc Melting is an advanced melting technology used for producing high-quality Titanium and specialty alloys under a controlled atmosphere. The process employs a plasma torch as the heat source, enabling precise control over melting conditions, chemistry, and cleanliness of the alloy.

### Key advantages of Plasma Arc Melting include:

- High metallurgical cleanliness and chemistry control, essential for aerospace and defence applications
- Ability to efficiently remelt and recycle internal metallic scrap and returns generated during casting and machining operations
- Flexibility to produce specialised or “exotic” Titanium alloys in smaller batch sizes, which are not economical to process through large-scale melting routes

### Operational and Strategic Benefits

The installation of the PAM furnace **significantly enhances Aerolloy's operational flexibility and cost efficiency**. It allows the company to rapidly remelt and reuse internally generated material returns, improving material yield and reducing dependence on fresh raw material inputs.



In addition, the PAM facility enables Aerolloy to **develop and manufacture customised Titanium alloys in limited quantities**, supporting advanced aerospace, defence, and space programmes that require tailored material specifications.

Together with Aerolloy's existing Vacuum Arc Remelting (VAR) and Vacuum Induction Melting (VIM) infrastructure, the PAM furnace further strengthens PTC and Aerolloy's position as **one of the most integrated Titanium and Superalloy manufacturing platforms in the region**.

### Strategic Significance

The completion of the PAM installation is **aligned with PTC's long-term strategy of building a fully integrated, end-to-end ecosystem for advanced materials—from alloy development and melting to casting and downstream processing—within India**. This capability supports both import substitution and export-oriented growth in high-value aerospace and defence materials.

### About PTC Industries Limited:

PTC Industries Limited is a leading Indian manufacturer of precision metal components for critical and high-performance applications, with a legacy of over six decades. Through its wholly owned subsidiary, **Aerolloy Technologies Limited**, the company manufactures and supplies titanium and superalloy materials and castings for aerospace and defence applications, serving both domestic and global markets.

PTC is significantly expanding its capabilities through a multi-million-dollar investment in its **Strategic Materials Technology Complex (SMTc)** at the Lucknow node of the Uttar Pradesh Defence Industrial Corridor. The facility is being developed as a fully vertically integrated ecosystem, encompassing aerospace-grade titanium and superalloy melting and mill operations, which produce ingots, billets, bars, plates, and sheets, along with state-of-the-art precision casting and downstream manufacturing capabilities.

Through this integrated approach, PTC is building one of the most advanced end-to-end platforms globally for strategic materials and flight-critical components, strengthening India's role in the global aerospace and defence supply chain.

### For more information, please contact:

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