

Aerolloy Technologies Completes Installation and Successful Trials of Advanced 4500/5100 Tonne Intelligent Open Die Forging System for Aerospace-Grade Materials

Key Highlights:

- **Strategic capability:** Aerolloy completed installation and successful trials of an advanced 4500/5100 Tonne Intelligent Open Die Forging System a transformational addition to its manufacturing ecosystem at the Strategic Materials Technology Complex, Lucknow.
- **Strategic breadth:** The press is capable of forging Titanium, Superalloys, and a wide range of advanced high-performance alloys, enabling production of critical components for next-generation aeroengines, defence platforms, space systems, and industrial gas turbines.
- **End-to-end integration:** With this addition, PTC and Aerolloy now command a fully integrated materials-to-component supply chain encompassing melting (VIM), casting (VAR), and now forging one of the most comprehensive aerospace manufacturing ecosystems globally.
- **Market opportunity:** The global market for aerospace-grade forged Titanium and Superalloy components is valued in billions of dollars annually and is growing strongly, driven by demand in commercial aviation, defence, and space propulsion.
- **Import substitution and growth:** Strengthens India's self-reliance in critical forged aerospace materials, reduces dependence on imports, and positions Aerolloy to compete aggressively in both domestic and global markets.

Lucknow, India – 31 March 2026: Aerolloy Technologies Limited, a wholly owned subsidiary of PTC Industries Limited and a manufacturer of high-precision metal components and materials for critical aerospace and defence applications, announced the successful completion of installation and hot and cold trials of its **4500/5100 Tonne Intelligent Open Die Forging System** at the Strategic Materials Technology Complex (SMTC) in Lucknow Node of the UP Defence Industrial Corridor.

Engineered for precision, scale, and intelligence, this forging system is capable of working Titanium, Superalloys, and a wide range of advanced high-performance alloys producing **critical components that are indispensable to next-generation aeroengines, advanced defence platforms, space propulsion systems, and industrial gas turbines.**

The installation of this forging system represents a **transformational expansion of Aerolloy's manufacturing ecosystem** and a major leap in India's indigenous capability in critical aerospace manufacturing. Open die forging of Titanium and Superalloys at this scale demands exceptional precision, process control, and material science expertise capabilities that only a handful of companies globally possess.

Critically, this milestone completes a globally rare trifecta: **melting, casting, and forging all under one roof.** Combined with the recently completed installation and successful trials of the Vacuum Induction Melting (VIM) furnace for Superalloy castings and the Vacuum Arc Remelting (VAR) 400 furnace for large Titanium castings, Aerolloy and PTC now offer one of the most comprehensive aerospace material-to-component supply chains anywhere in the world.





Speaking on this occasion, **Mr. Sachin Agarwal, Chairman and Managing Director, PTC Industries, said:** “The installation and successful completion of trials of this advanced Open Die Forging System is a landmark moment not just for Aerolloy and PTC Industries, but for India’s aerospace and defence manufacturing ecosystem as a whole.

When we completed the installation and successful trials of our VIM furnace and our VAR 400 furnace, we built the capability to produce some of the largest precision castings in the world. With this forging press, we now extend that capability further closing the loop from melting and casting to forging, in Titanium, Superalloys, and advanced high-performance alloys. This is the kind of end-to-end integration that defines a global-class aerospace supply chain.

More importantly, every ton forged here reduces India’s dependence on imported aerospace-grade forgings. We are building the foundation for India’s long-term leadership in high-performance materials and manufacturing and we are building it from Lucknow.”

Strategic and Market Impact

The installation and successful trials of the Intelligent Open Die Forging System further strengthen Aerolloy’s strategy of building **globally rare, highly integrated manufacturing capabilities**. Combined with the VIM and VAR facilities, PTC and Aerolloy now cover the complete chain from raw alloy and material production through precision casting to large-scale forging for the most demanding aerospace and defence applications.

This integration creates **efficiency, cost competitiveness, supply chain resilience, and unmatched quality control** for global customers, while significantly enhancing India’s strategic position within the global aerospace and defence supply chain. For international OEMs and Tier-1 suppliers, it offers a single, trusted source for some of the most complex and critical materials and components in aviation.



Global demand for aerospace-grade forged Titanium and Superalloy components is expanding rapidly, driven by the next generation of commercial aircraft engines, widening defence programmes, and accelerating space exploration activity. This positions Aerolloy to capture a significant share of these opportunities domestically and internationally while aligning growth with India's strategic objectives of supply chain security and technological self-reliance.

About PTC Industries Limited:

PTC Industries Limited is a leading Indian manufacturer of precision metal components and strategic materials for critical applications, with over six decades of experience. Through its wholly owned subsidiary **Aerolloy Technologies Limited**, the group manufactures Titanium and Super Alloy materials and components for aerospace, defence, and space applications in India and globally. PTC continues to make substantial investments in building a **fully integrated advanced materials ecosystem** at the Uttar Pradesh Defence Industrial Corridor

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