

**Date: November 16, 2024**

**To,**  
**National Stock Exchange of India Limited**  
Exchange Plaza, C-1, Block G Bandra Kurla  
Complex, Bandra (E),  
Mumbai-400051

**To**  
**BSE Limited**  
**Department of Corporate Services - Listing**  
Phiroze Jeejeebhoy Towers, Dalal Street,  
Mumbai – 400001

**SYMBOL: PTCIL**

**BSE Code: 539006**

Dear Sir/Madam,

**Sub: Disclosure under Regulation 30 of the SEBI (Listing Obligations and Disclosure Requirements), Regulations 2015 – Investor Presentation**

Pursuant to Regulation 30(6) read with Part A of Schedule III of the Securities and Exchange Board of India (Listing Obligations and Disclosure Requirements) Regulations, 2015, please find enclosed a copy of the Investor Presentation.

This is for your information and records.

Thanking you.

Yours Faithfully,  
For **PTC Industries Limited**

**Smita Agarwal**  
**Director and CFO**  
**DIN: 00276903**

**Place: Lucknow**

**Encl: As above**

# **PTC Industries Limited**

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## **TOWARDS PARITY**







INVESTOR PRESENTATION  
Q2 FY25 - November, 2024

- This presentation and the following discussion may contain “forward looking statements” by PTC Industries Limited (“PTC” or the Company) that are not historical in nature. These forward-looking statements, which may include statements relating to future results of operations, financial condition, business prospects, plans and objectives, are based on the current beliefs, assumptions, expectations, estimates, and projections of the management of PTC about the business, industry and markets in which PTC operates.
- These statements are not guarantees of future performance, and are subject to known and unknown risks, uncertainties, and other factors, some of which are beyond PTC’s control and difficult to predict, that could cause actual results, performance or achievements to differ materially from those in the forward-looking statements.
- Such statements are not, and should not be construed, as a representation as to future performance or achievements of PTC. In particular, such statements should not be regarded as a projection of future performance of PTC. It should be noted that the actual performance or achievements of PTC may vary significantly from such statements.



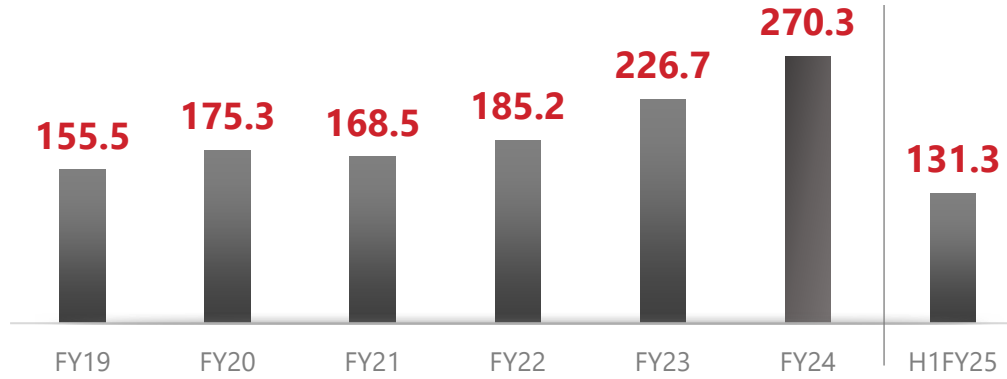
# Q2 & H1 FY25: Result Highlights

# Q2 & H1 FY25 Consolidated Highlights

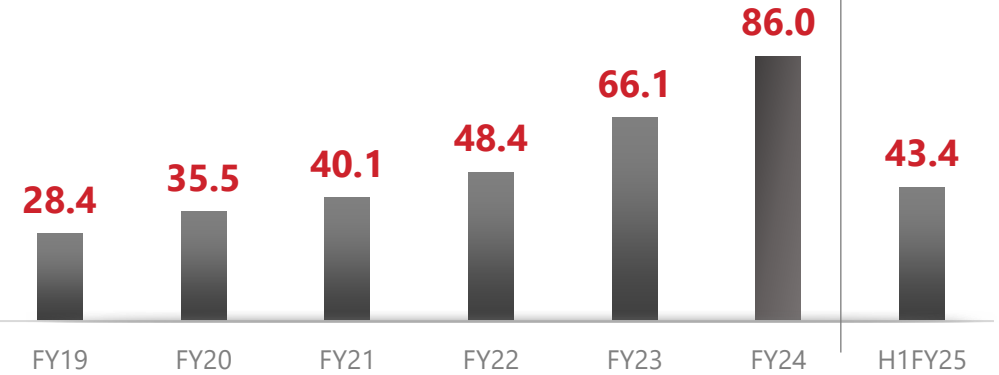
Particulars INR Crores	Q2FY25	Q2FY24	YoY%	H1FY25	H1FY24	YoY%
 Total Income	<b>80.8</b>	60.3	34.0%	<b>131.3</b>	134.7	-2.5%
 EBITDA	<b>29.7</b>	18.4	60.8%	<b>43.4</b>	41.1	5.4%
 EBITDA Margin%	<b>36.7%</b>	30.6%	611 bps	<b>33.0%</b>	30.5%	249 bps
 Profit Before Tax	<b>22.0</b>	10.5	109.8%	<b>28.4</b>	25.4	11.9%
 Profit After Tax	<b>17.3</b>	8.1	112.7%	<b>22.2</b>	19.4	14.3%
 PAT Margin%	<b>21.4%</b>	13.5%	792 bps	<b>16.9%</b>	14.4%	249 bps

# Key Financial Trends

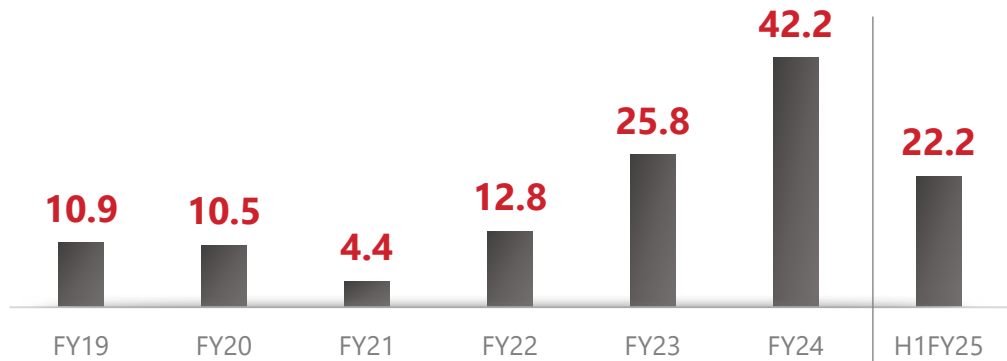
## Total Income



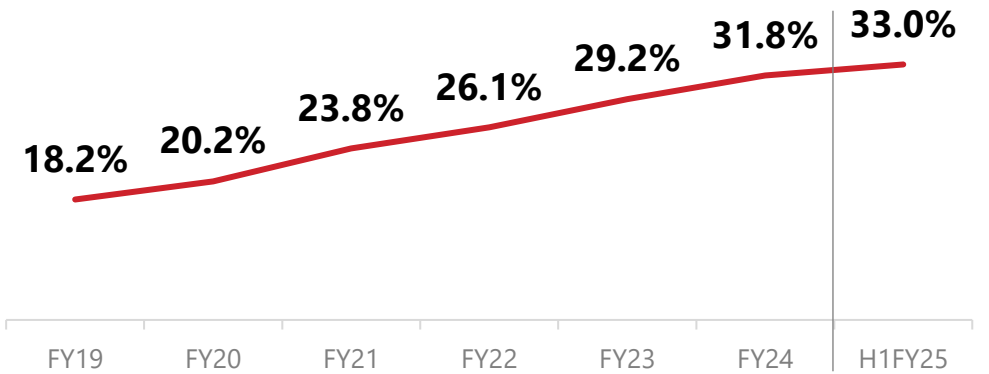
## EBITDA



## PAT



## EBITDA Margin %



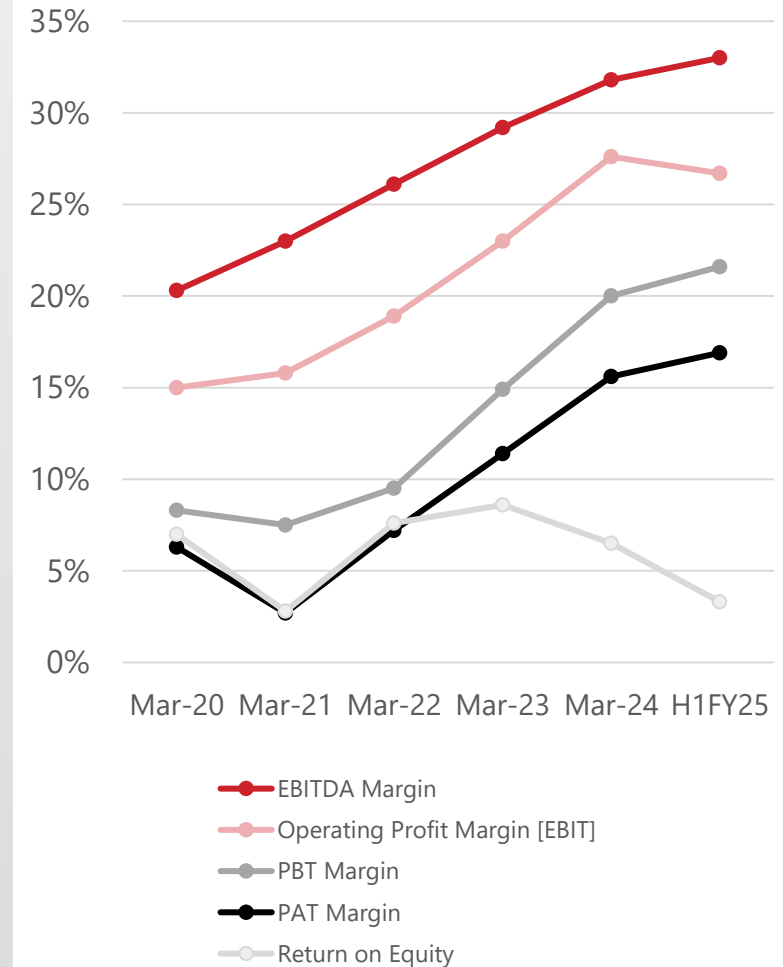
In Rs. Cr

# Accounting Ratios

Particulars	As at March 31, 2020	As at March 31, 2021	As at March 31, 2022	As at March 31, 2023	As at March 31, 2024	As at September 30, 2024
<b>Profitability Ratios</b>						
EBITDA Margin	20.3%	23.8%	26.1%	29.2%	31.8%	33.0%
Operating Profit Margin [EBIT]	15.0%	15.8%	18.9%	23.0%	27.0%	26.7%
PBT Margin	8.3%	7.5%	9.5%	14.8%	20.0%	21.6%
PAT Margin	6.3%	2.7%	7.2%	11.4%	15.6%	16.9%
Return on Equity	7.0%	2.8%	7.6%	8.6%	6.5%	3.3%*

\*TTM Basis

## Profitability Ratios



# Key Updates

## Hot Rolling Mill

Acquisition of a Hot Rolling Mill from the USA will enable the production of Titanium Alloy Plates and Sheets for Aerospace and Defence. This will create a vertically integrated Titanium alloy value chain at a single site.

## Order from Israel Aerospace Industries (IAI)

ATL received an order from Israel Aerospace Industries (IAI), for supply of Titanium cast components for Aerospace applications. This is the first time that IAI is sourcing such cast components from India.

## Significant Contract from BAE Systems

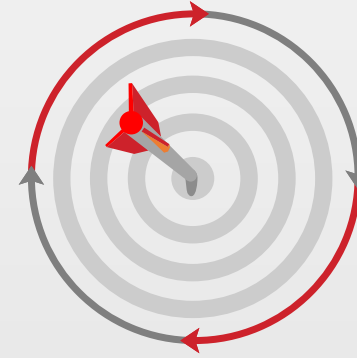
PTCIL received a significant order from BAE Systems for Titanium castings for the M777 Ultra-Lightweight Howitzer, including Spade Trails and Blades. These components, developed by PTCIL over past two years, signify a key achievement in partnership with BAE Systems

## Defence Testing Infrastructure Scheme (DTIS) Partnership

Collaboration to establish a Greenfield Defence Testing Facility in UP Defence Industrial Corridor, enhancing India's defence testing capabilities

## Casting Technology for Single Crystal & DS blades and vanes

Successfully developed advanced technology for Single Crystal and Directionally Solidified blades and vanes for Aero-engine and Industrial Gas Turbine applications



## Strategic Impact:

- Establishing PTC as a **key player** with unique capabilities in India and globally
- Supporting the '**Make in India**' initiative and strengthening the domestic defence ecosystem
- **Enhancing product offerings** and manufacturing capabilities for high-precision requirements in aerospace and defence sectors



# Management Remarks

***Speaking on Q2FY25 Performance, Mr. Sachin Agarwal, Chairman & Managing Director, said:***

*"I am happy to announce that Q2FY25 has been a period of good strategic growth for our company. Our acquisition of a state-of-the-art Hot Rolling Mill from the USA will significantly enhance our production capabilities, allowing us to produce advanced Titanium Alloy Plates and Sheets for the Aerospace and Defence sectors. This development, in synergy with our upcoming new facility in Lucknow, will help us establish a vertically integrated value chain that is unparalleled in the global market. Additionally, we have secured prestigious contracts with Israel Aerospace Industries and BAE Systems, further solidifying our reputation as a trusted supplier of critical Titanium castings for cutting-edge defence platforms. Our commitment to excellence is also reflected in our strategic hiring of senior personnel, ensuring that our team is equipped to meet the challenges and opportunities ahead. We look forward to continuing our trajectory of innovation and growth, delivering value to our stakeholders."*



**Sachin Agarwal**

Chairman & MD

# Company Overview

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*For the detailed Investor Presentation, please visit the Link below*

[\*PTCIL Investor Presentation June 2023\*](#)



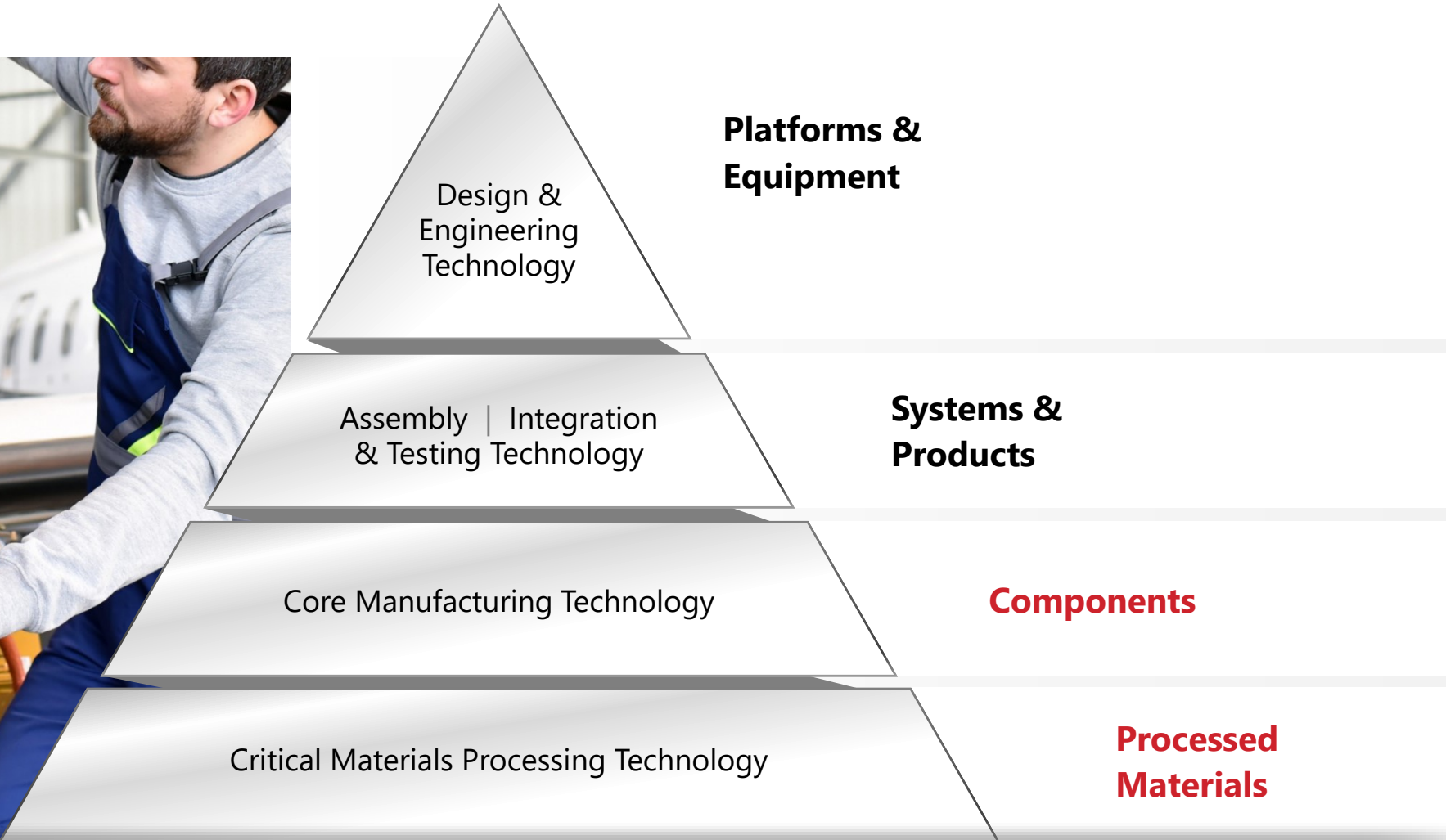
# Towards Parity

श्रेयो हि वृणीते प्रेयो वृणीते।  
श्रेयो हि धीरोऽभिप्रेयसो वृणीते॥ – *Taittiriya Upanishad*

*Indeed, the wise one chooses the good (Shreyas) over the easy (Preyas).  
The intelligent one chooses the good, but the undiscerning one chooses the easy.*

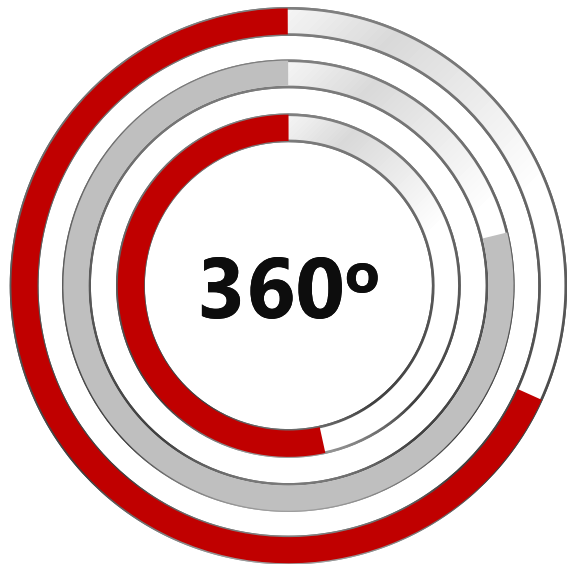
Therefore, It Is Our Dharma To Work  
Towards Building Equality In Respect of  
**Capability, Technology,  
Skill, Workmanship, Talent,  
Knowledge, Quality,  
Productivity, Efficiency, & Sustainability**  
in the country to allow us to become a  
nation that is at par with the world.

# Technology Pyramid



# Platform Independent Core Manufacturing Technologies

**Established Capabilities to Cater to entire Spectrum of A&D Sector**



## Civil Aviation

Torque tubes  
airframe structural  
engine mounts  
turbine frames  
engine liners  
swirlers and injectors



## Air Defence

Airframe Structures  
Intermediate casings  
Bearing Housings  
Re-fuelling nozzles  
Turbine oil-tanks  
Engine Gearboxes



## Land Defence

Suspension arms  
Muzzle Brakes  
Lightweight artillery structures  
Armour Protection



## Naval Defence

Pump components  
valves  
on-line fittings  
radar structures  
propellers and propulsion components



## Space

Propellant tanks  
Propulsion nozzles  
bulkheads  
liquid fuel pump casings and impellers  
lightweight structures



## Aero Engines

Turbine frames  
blades, buckets and vanes  
bearing housings  
inlet and outlet structures



## Strategic Systems

Propellant tanks  
Propulsion nozzles  
bulkheads  
Pressure bottles  
lightweight structural

# Journey Towards Building PTC - Innovation & Technological Capabilities



## India's 1st Technology & Innovation Focused Foundry

1963-1980

Establishment of a benchmark of quality  
In-house R&D: Commitment to technology & innovation  
Indigenizing Technology: Import Substitution in India



## Building Customers & Going Global

1980-2000

Established Global Footprint with long lineage  
Cemented relationships with customers  
Export Awards: Dhatu Nayak Award , Best Exporter Award



## Technological Evolution

2000-2010

Developed in-house technologies: Replaced traditional casting methods with Replicast, RapidCast, Printcast & forgeCAST technologies  
Introduced Robotics & Automation  
Set up a new Facility at Mehsana, Gujarat



## Being Future Ready

2010-2024

Established AMTC Plant  
Pioneer in bringing Titanium Castings manufacturing to India  
Incorporated Aerolloy Technologies: to capitalize on opportunities in the Defence & Aerospace segment  
Setting up Ingot manufacturing from recycled Titanium capability in India  
Joined hands with marquee players in Defence & Aerospace segment  
Raksha Mantri Excellence award for Indigenisation

# It's the proficient team which are **the strong pillar of the company**

- **MBA in Operations  
University of Tulsa**
- **M.Sc in Finance  
Boston College**

**Industry  
Experience  
of 25+ years**

**Responsible for  
new technologies  
& continuous  
R&D efforts**



**Sachin Agarwal**

Chairman & MD



**Mr. Priya Ranjan Agarwal**

Director, Marketing

Bachelor of Engineering  
(Mechanical)

Industry Experience  
of over 40 years

Responsible for BD in key  
infrastructure projects &  
domestic marketing activities



**Mr. Alok Agarwal**

Director, Quality & Technical

B.E. in Metallurgy  
from IIT, Kanpur

Industry Experience  
of over 35+ years

Responsible for improving  
quality standards in Plant &  
obtaining various ISO &  
quality certifications



**Ms. Smita Agarwal**

Director & CFO

Qualified CA & DISA (ICAI)  
Industry Experience  
of 20+ years

Led multiple strategic  
financial initiatives in PTC  
while implementing best  
practices for good  
governance and transparency



**James Collins**

Chief Technology Officer

Qualified Metallurgist with a  
number of patents in his name

Industry Experience  
of 15+ years

Leading technical expert in  
field of Investment Casting,  
Vacuum Melting, Single  
Crystal & Directional casting  
& Powder Metallurgy



**Stephane Bras**

Head - International Sales

Master degree in  
international Sales  
Industry Experience  
of 20+ years

Responsible for developing  
the International Sales of the  
group, and to manage  
development projects.

# Our Core Values

Our values define who we are, how we operate, and where we're headed. Our values are defined by the word ASPIRE, which stands for :



## Agility

responding and adapting to changes quickly; learning new skills and responding to new requirements; executing work faster

## Sustainability

taking responsibility for longevity; creating lasting value for our stakeholders; safeguarding the environment

## Selflessness

seeking what is best for PTC; having no ego when searching for the best ideas; helping colleagues; sharing information openly and proactively.

## Passion

inspiring others with own thirst for excellence; caring intensely about PTC's success; being tenacious

## Prudence

making wise decisions; getting beyond treating symptoms and identifying root causes; thinking strategically.

## Integrity

being known for honesty, candour, and directness; being straightforward, being quick to admit mistakes

## Impact

accomplishing important work ; demonstrating consistently strong and reliable performance; focusing on results

## Innovation

re-conceptualizing issues to discover practical solutions to difficult problems; challenging prevailing assumptions and suggesting better approaches; creating new ideas; staying nimble; minimizing complexity and simplifying.

## Respect

treating people with respect independent of their status or disagreement; listening well to understand better; remaining calm in stressful situations; understanding and being considerate of the needs of others.

## Endurance

rejecting the temptation to give up when things get tough; staying focused on executing work.

**Aspire embodies in itself the path to our success and the aspiration to get there.**



# Certification



AS/EN 9100  
Approved  
since 2021



Safran Aircraft  
Engines Approval &  
Long-Term Purchase  
Agreement



ATL is an Approved  
Supplier to Honeywell  
after completion of  
NSI Audit and  
Compliance



MoU and  
Long-Term Purchase  
Agreement with  
Dassault Aviation



ATL is an Approved  
Supplier to  
BAE Systems



ATL is an Approved  
Supplier to Israel  
Aerospace  
Industries (IAI)

# Our recognitions and achievements



**Raksha Mantri's Award at #DefExpo2022**

**Long Term Purchase Agreement with SAFRAN AIRCRAFT ENGINES**



**Long Term Purchase Agreement with DASSAULT AVIATION**



**Aerolloy exhibited at Paris Air Show 2023**



54<sup>th</sup> INTERNATIONAL PARIS AIR SHOW LE BOURGET JUNE 19-25, 2023  
54<sup>e</sup> SALON INTERNATIONAL DE L'AÉRONAUTIQUE & DE L'ESPACE PARIS - LE BOURGET 19-25, JUIN 2023

## BAE Systems, PTC sign MoU for making M777 Howitzer parts

The first sub-systems will be made by end of 2022



(L-R) Ravi Nirgulkar, MS, MBA, MD at BAE Systems, India, Bangladesh, Sri Lanka; Sachin Agarwal, CMO, PTC Industries; Paul West, India Industrialisation director, BAE Systems and Bharat Sharma, Commissioning IWT Lead at BAE Systems

BAE Systems & PTC Industries have signed an agreement to manufacture titanium castings for the Indian 155mm M777 Ultra-lightweight Howitzer (ULH) at PTC Industries' production facility in Lucknow. The agreement aims to produce the complex lightweight titanium castings, developing the tightly controlled fabrication process and ensuring the same parts can be manufactured in any future production of the M777 Howitzers for India. The first sub-systems will be produced by the end of 2022, and there is a plan to progress manufacture of all three of the major structures (Saddle, Cradle, and Lower Carriage) that form

the basis of the gun. Indian suppliers which participate in the M777 programme can earn a role in the overall BAE Systems global supply chain through their performance. "The production process at PTC Industries is being developed and qualified to deliver the long term support for the 145 M777s we are delivering to India," said Duncan Stevenson, the general manager of BAE Systems Weapon Systems UK, which manages the manufacture and assembly of the M777 light-weight Howitzers. "This agreement will allow BAE Systems and PTC Industries to jointly provide major structures to support the spares and repair programme required to keep the guns available for the Indian Army. It also ensures that the overall 'Make in India' content of the ULH is above 60%, which will allow the Government of India to procure any future platforms under a 'Make in India' acquisition requirement." BAE Systems also has a 52-Calibre 155mm barrel for the ULH, which it is willing to manufacture in India, further expanding Indian artillery capability from this battle-proven system. This would make India the first customer to have a 155mm 52-calibre platform under 5,800kgs in weight.

## UP to excel in aerospace, defence sectors: Rajnath

Opens First Pvt Manufacturing Unit In Corridor



Times News Network

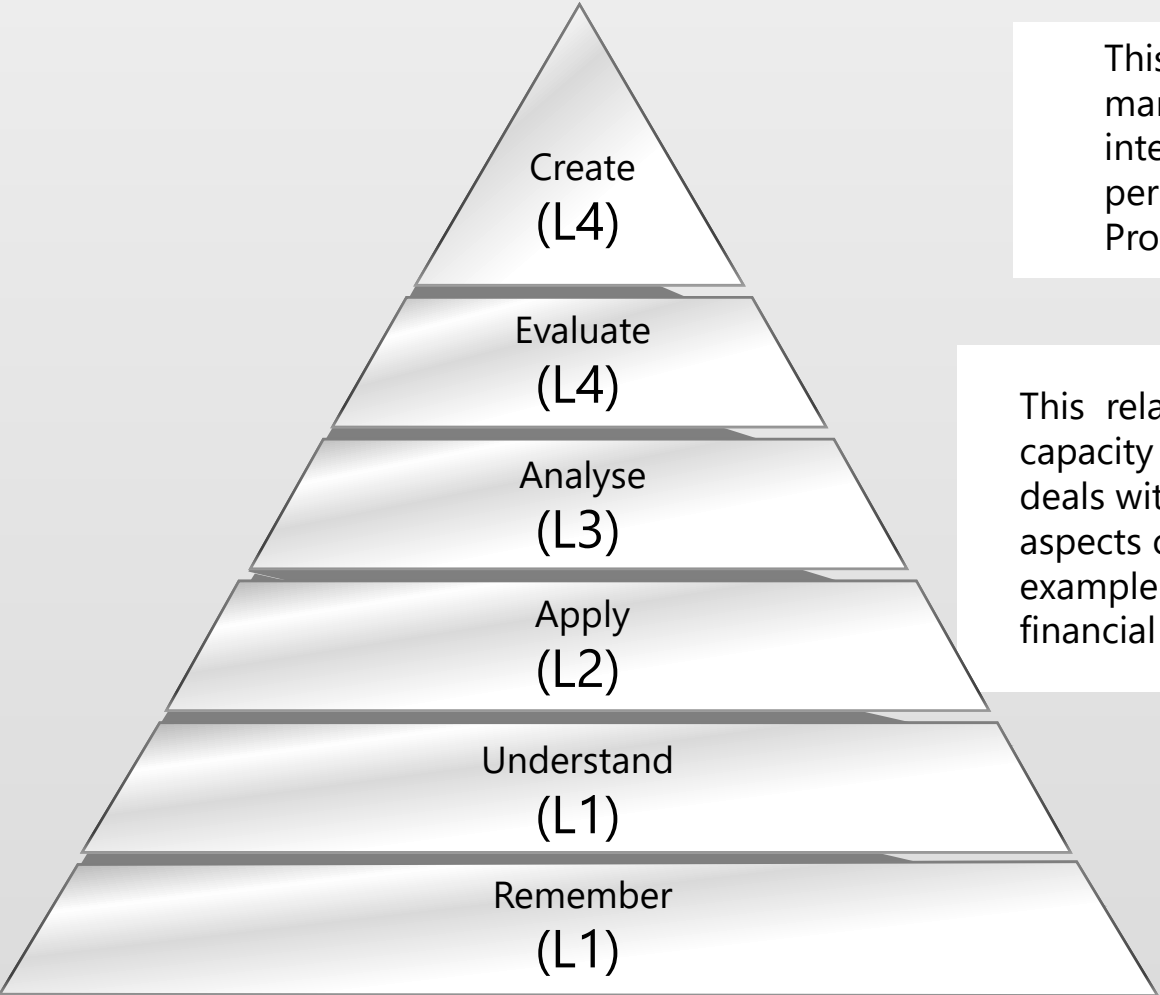
Lucknow: Defence minister Rajnath Singh said on Saturday that more private companies will start investing in Lucknow and Uttar Pradesh, which will make a mark in defence and aerospace sector manufacturing.

After inaugurating the first private defence manufacturing facility in UP Defence Industrial Corridor, Singh said, "More companies will invest in Lucknow and UP and the state will make a mark in defence and aerospace sector manufacturing." He also lauded CM Yogi Adityanath for important reforms and incentivizing investment. "I believe more private companies will invest in IIP and the government will provide all support. This investment will ensure that people will not have to leave their homes in search of employment." Singh exhorted the industry to focus on research and development and make full use of government's policies to stay ahead in the race of developing state-of-the-art technologies. "I urge industry to make the local community a partner in their success by adopting TIL schools, hospitals and starting apprenticeship programmes," he said.

"Adoption of technology is a must for being successful in today's competitive environment. PTC Industries' integrated metal manufacturing facility will reduce the nation's dependence on imports and help in building Atmanirbhar Bharat," he added. The facilities run by Aelloy Technologies, a subsidiary of PTC Industries, will manufacture parts for aircraft and helicopter engines, drones, submarines, ultra-light artillery guns, space launch vehicles and strategy systems. Singh emphasized the need for continuous modernization of armed forces in the rapidly changing global security environment. "The Indian defence industry has the potential to develop quality and cost-effective equipment which will bolster security and can be exported," he said. Reaffirming the resolve of 'Make in India and Make for the World', Singh listed the government's measures for self-reliance.

# Our focus on Human Resource Development

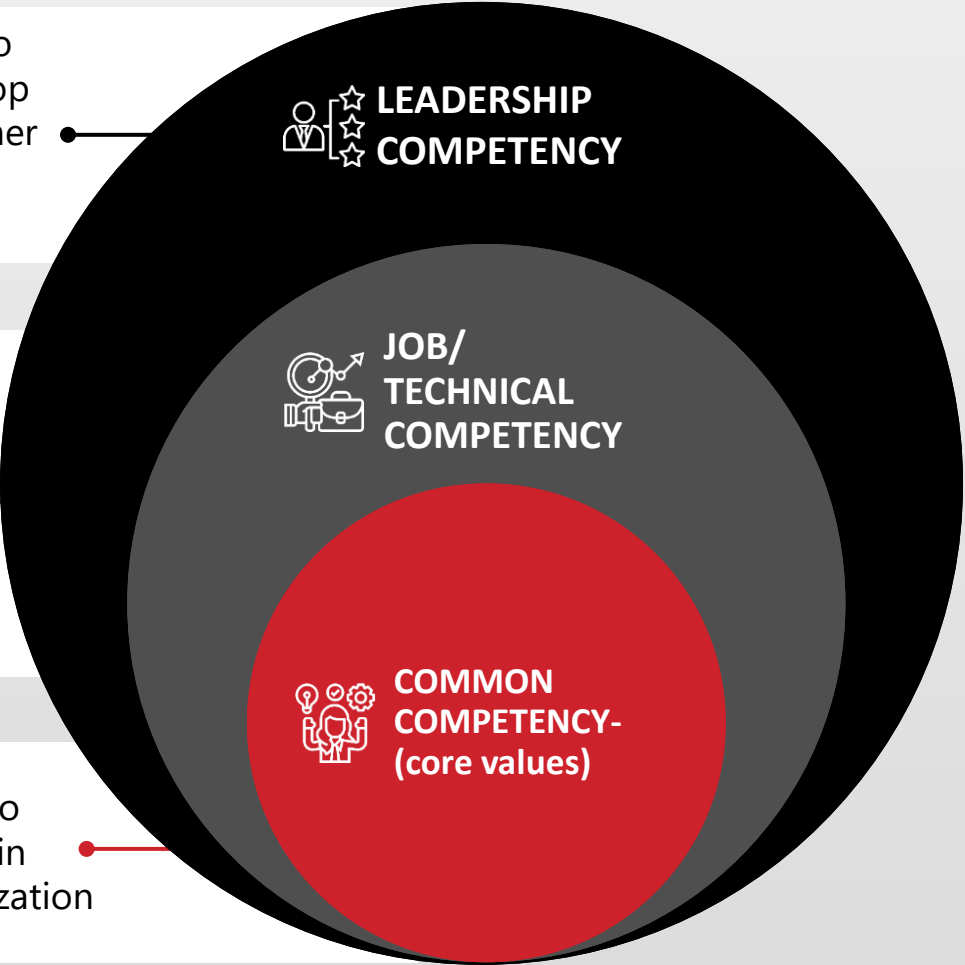
Training and Competency Development Framework.



This relates to ability to manage job and develop interaction with the other persons. For example- Problem solving.

This relates to functional capacity of work. It mainly deals with the technical aspects of the job. For example- market research, financial analysis etc.

Common to every one in the organization



# Current & Future Renewable Energy Sources



PTC Industries and Aerolloy is committed to comply to Carbon footprint reduction and GHG protocols, in accordance with International standards, meeting the Paris Agreement targets

## CURRENT

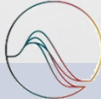


COP21 - CMP11  
PARIS 2015  
UN CLIMATE CHANGE CONFERENCE

750kW Roof Top Solar (AMTC)

750kW Wind Turbine (Mehsana)

## FUTURE



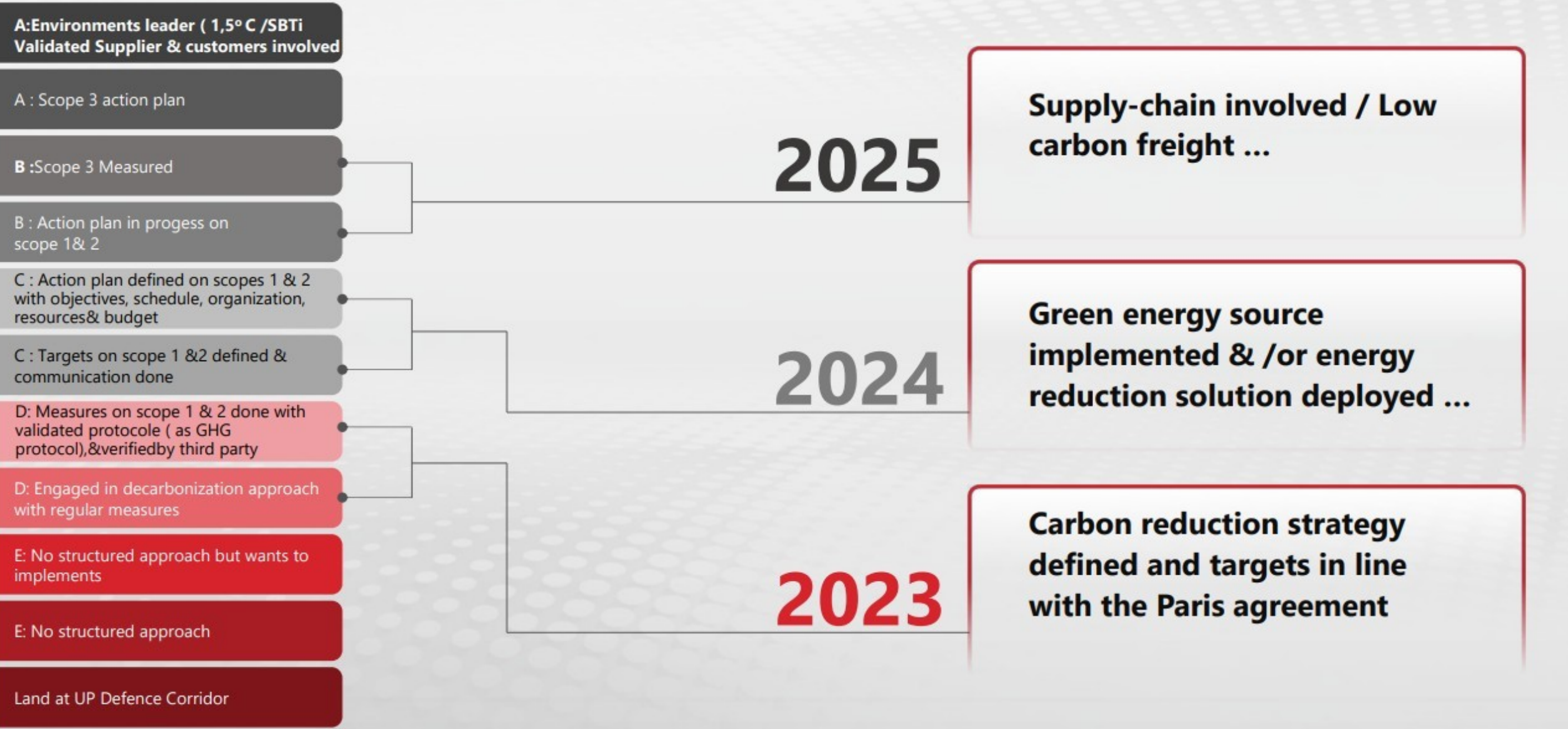
SCIENCE  
BASED  
TARGETS

DRIVING AMBITIOUS CORPORATE CLIMATE ACTION

10-12MW Solar Plant  
(Aerolloy Metals)

>50% Energy consumption  
from renewable sources

# Roadmap for Carbon Footprint

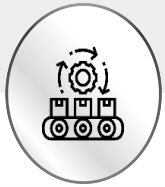


# PTC & Aerolloy Technology Verticals



## Air Melt Castings

Replicast,  
Rapidcast,  
Investment  
Casting



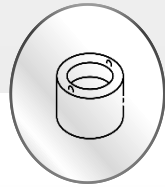
## Machining & Assembly

CNC 5-Axis  
Machines;  
Assembly  
shop



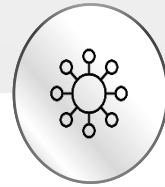
## Titanium Castings

Investment  
Casting;  
VAR; HIP



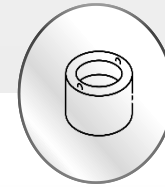
## Super Alloy Castings

Investment  
Casting;  
VIM; HIP



## Controlled Microstructure

Investment  
Casting; SX,  
DS, EQ



## Forging & Rolling Mill

Open Die  
Forging;  
Bar/Rod  
Rolling Mill;  
Sheet/Plate  
Rolling Mill



## Titanium Alloy Mill

VAR,  
EBCHR,  
PACHR;  
Forging



## Super Alloy Mill

Masteralloy  
VIM, VAR;  
Forging

### INDUSTRIAL & DEFENCE CASTINGS GROUP



### AEROSPACE CASTINGS GROUP



### AEROSPACE MATERIALS GROUP



# Technology – Rapidcast, Replicast, Investment Casting



## **RAPIDCAST**

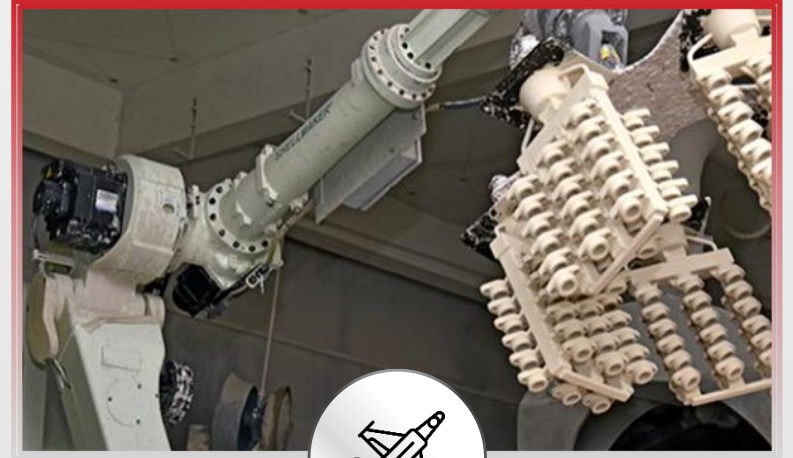
Quality – Value – Speed  
up to **5,000 kgs** single piece

7-Axis CNC machining robots  
to machine patterns



## **REPLICAST**

Near net shape casting solutions  
using ceramic shells with weight  
range up to **2,500 kg**



## **INVESTMENT CASTING**

Lost Wax Process for high-quality  
high-integrity castings with ceramic  
shelling in small sizes and larger  
volumes

# Technology – Ti Cast, Controlled Microstructure, ForgeCast



**TICAST**

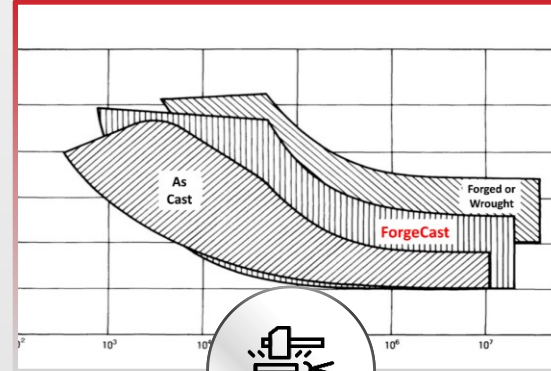
Vacuum melt casting  
of Reactive alloys

Investment casting,  
PrintCast, Replicast



**Controlled  
Micro-Structure**

Microstructure controlled  
castings (Single Crystals and  
Directionally Solidified) for  
Aero Engines



**FORGECAST**

Where castings and  
forgings converge

Near net shape castings  
with forging properties



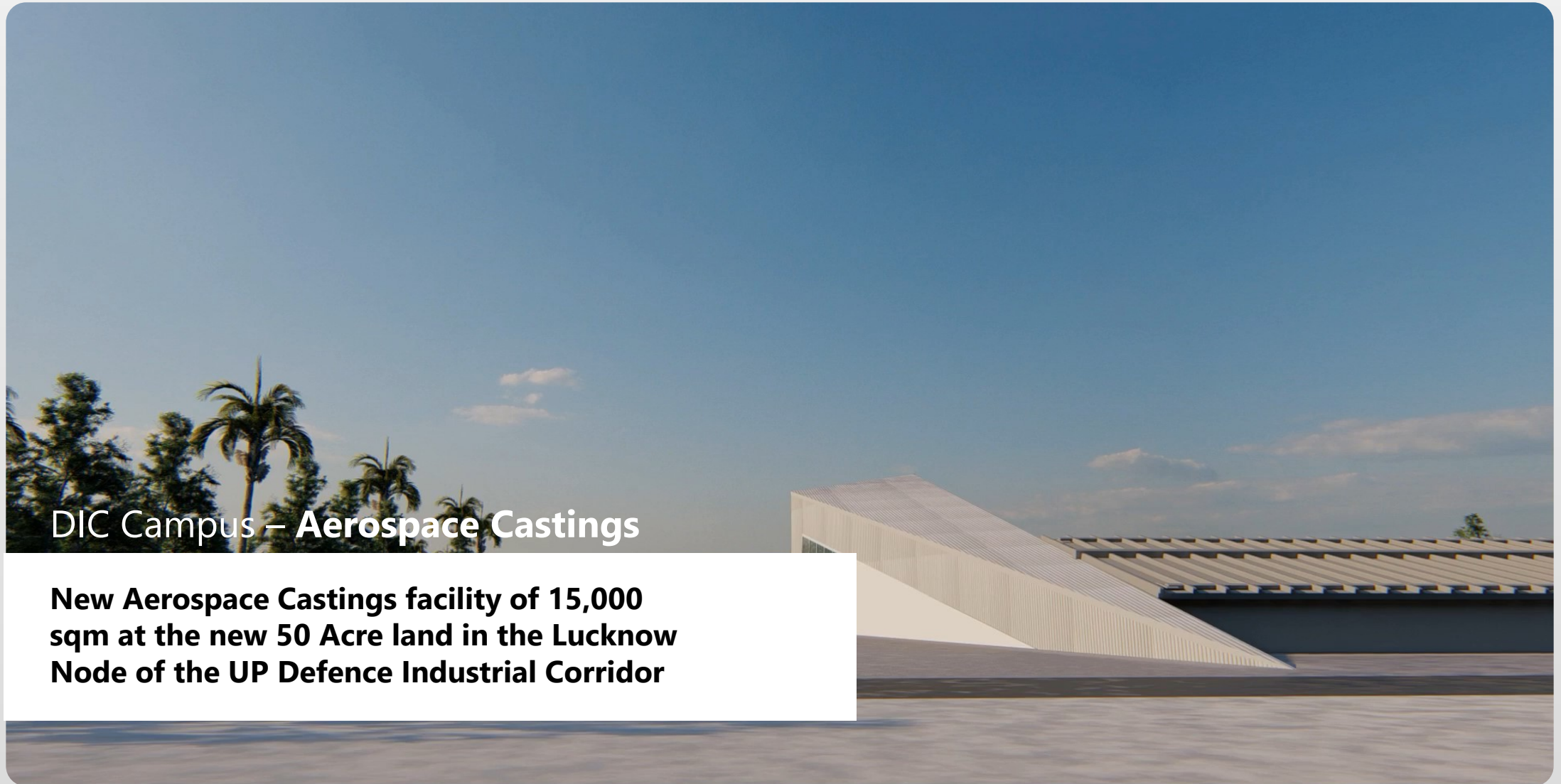
**Hot Isostatic  
Press (HIP)**

Used to eliminate pores  
in metal components

A must technology for critical  
components like Aerospace



# New Aerospace **Castings Facility**



DIC Campus – Aerospace Castings

**New Aerospace Castings facility of 15,000 sqm at the new 50 Acre land in the Lucknow Node of the UP Defence Industrial Corridor**

# Aerospace Castings Group – Future Capability & Additions

**3D Printed  
(SLA) Pattern:** :  
600X600X500 mm



**Wax Injection Press:**  
1) 6 Tonne, 1000 cc,  
350X350X350 mm;  
2) 35 Tonne, 6500 cc,  
750X750X750 mm



**Robotic Shelling System:**  
Make: VA Tech; 1 Robot System;  
Max Shell Dim: 600mm (dia)X  
800mm (height)



**Dewaxing AutoClave:**  
1200 mm (dia) X  
1500mm (depth)



**Flashfire Furnace:**  
1000X1000X1200 mm  
(Pacific Kiln)



**Other major  
Equipment available**



**Chemical Milling:**  
1200X1200X1200 mm



**Hot Isostatic Press:**  
**Max Temp:**  
1350 deg C; Max Pressure  
137 Mpa; 300 mm (dia) X  
900 mm (length)



**Dimension Inspection:**  
1) CMM: Zeiss :  
1000X1000X800 mm;  
2) GOM – 3D Scanning



**Radiography (X Ray):**  
Digital; Max  
thickness: 60 mm



**FPI:**  
New Automated FPI Line

# AEROSPACE MATERIALS GROUP

UPDIC Campus – **Aerospace Materials Mill**

## **Future Capability & Additions**

Titanium and Super Alloy Mill – Ingots, Billets,  
Rods, Bars, Slabs, Plates



# New Aerospace Materials Mill

Acquired - Electron Beam Cold Hearth Remelting (EBCHR) furnace and Vacuum Arc Remelter (VAR) through its wholly owned subsidiary "Aerolloy Technologies Limited (ATL)"

## Manufacturing Titanium (Ti) Ingots

One of the few global players to have capabilities to manufacture Titanium Ingots

## Manufacture Ti Ingots from Recycled / Scrap Titanium

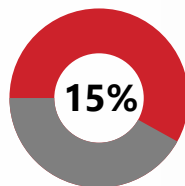
Titanium alloy ingots manufactured by recycling & remelting of scrap have equal acceptability compared to ingots manufactured using Titanium sponge (from ore)

## Capacity

The EBCHR furnace will have an installed capacity of 5,000 tonnes p.a. and VAR Furnace will have capacity of 1,500 tonnes p.a. for manufacturing Titanium ingots.

## Recent Supply Chain Disruption

Global supply chain, gives strategic advantage of having a facility to manufacture titanium alloy ingots with up to 80% of readily available & cost-effective Titanium scrap is a highly profitable proposition for PTC



PTC will possess a market share of over 15% of the world recycled Titanium Material production



World's largest single site Titanium recycling facility in India



Equipment procured, and installation and commissioning underway



At full capacity: Potential Revenue multiple of 10-15x with robust margins

# Technology – Titanium & Super Alloy material manufacturing

## Vacuum Arc Remelter (VAR)

A secondary melting process for the production of metal ingots with elevated chemical and mechanical homogeneity for highly demanding applications

## Electron Beam Cold Hearth Remelting (EBCHR)

This process is of great importance for the processing and recycling of scrap and waste of reactive metals, especially Titanium

## Plasma Arc Cold Hearth Melting (PAM)

Used for melting and remelting of Alloys (e.g. Titanium Alloys) which contain larger amounts of alloying elements with high vapor pressure that would evaporate under deep vacuum conditions

## Vacuum Induction Melting (VIM)

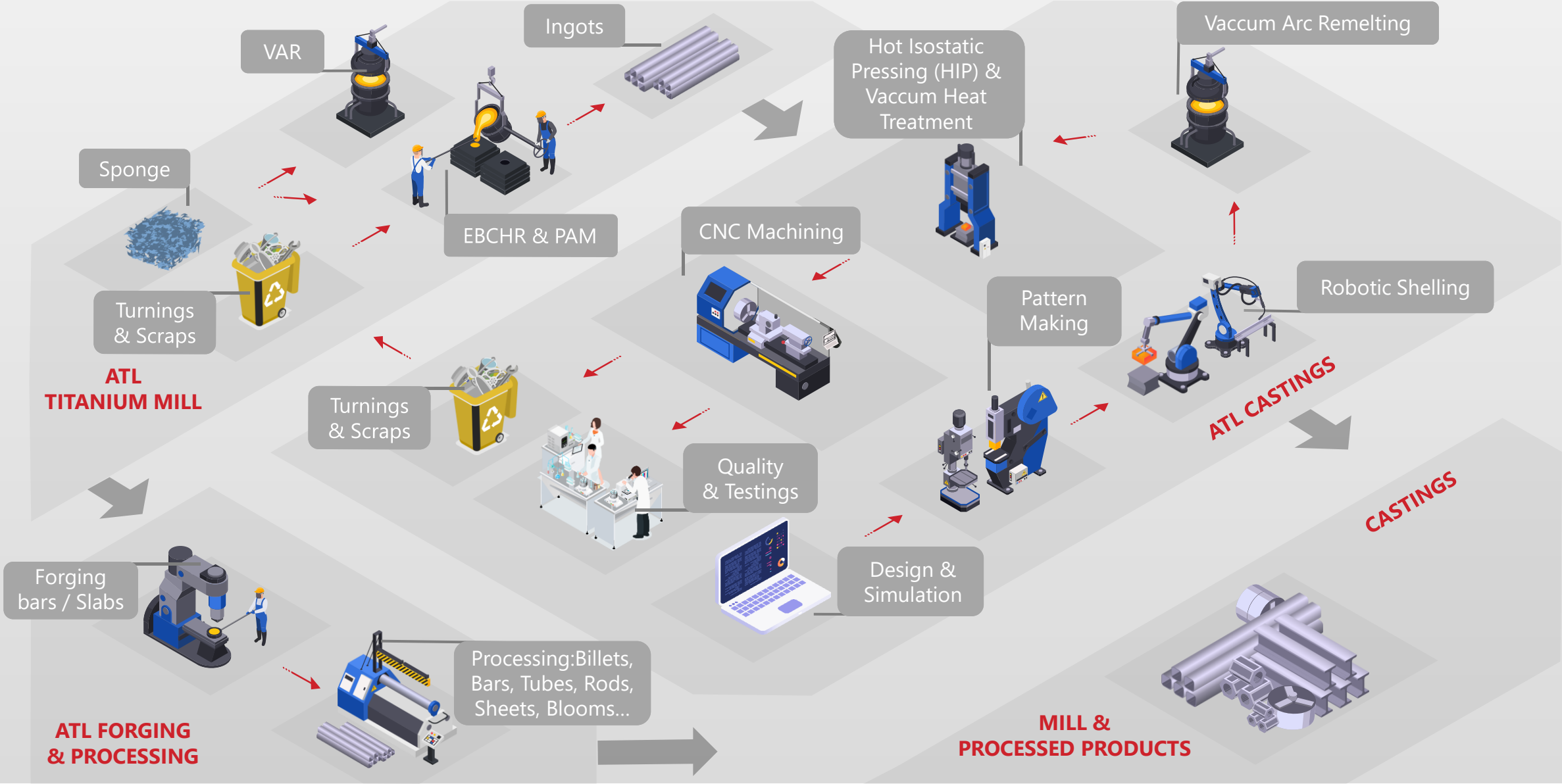
A primary melting process for the production of Super Alloy metal ingots with elevated chemical and mechanical homogeneity for highly demanding applications

# Metals Recycling



Shows that **GreenTitanium<sup>®</sup>** will avoid **26.4 tonnes** CO<sub>2</sub> per tonne of Titanium produced by recycling compared to traditional methods. The volume of emissions avoided is expected to increase in the future as operations reach their nominal production rate. Using this benchmark at full capacity, Titanium ingots produced by PTC's newly acquired EBCHR further would reduce **132,000 tonnes** of CO<sub>2</sub> emissions.

# Sustainability



# PASSION & COLLABORATION

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