

PTC Industries Limited

TOWARDS PARITY

INVESTOR PRESENTATION
Q3 & 9M FY24 - 13 February, 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.

Company Overview



For the detailed Investor Presentation, please visit the Link below

[PTCIL Investor Presentation June 2023](#)

Towards Parity

इहैव तैर्जितः सर्गो येषां साम्ये स्थितं मनः ।
निर्दोषं हि समं ब्रह्म तस्माद् ब्रह्मणि ते स्थिताः

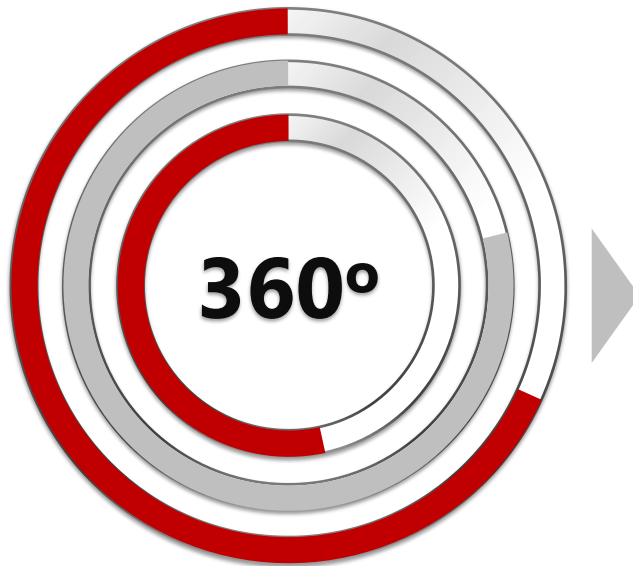
Therefore, It Is Our Dharma To Work
Towards Building Equality In Respect of
**Capability, Technology,
Skill, Workmanship, Talent,
Knowledge, Quality,
Productivity, Efficiency, & Sustainability**
in the country to allow us to become a
nation that is at par with the world.

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 - Innovations & 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

Our team: **Strong pillars for the Company**

**MBA in Operations -
University of Tulsa,
Oklahoma & M. Sc in
Finance - Boston
College, Massachusetts**

**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 35+ 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 33+ 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 of Sales - Europe

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



Our recognitions and achievements



Long Term Purchase Agreement with SAFRAN AIRCRAFT ENGINES



Long Term Purchase Agreement with DASSAULT AVIATION



Raksha Mantri's Award at #DefExpo2022

Aerolloy exhibited at Paris Air Show 2023

54th INTERNATIONAL PARIS AIR SHOW LE BOURGET JUNE 19-25, 2023

54^e SALON INTERNATIONAL DE L'AÉRONAUTIQUE 6 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

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 UH 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 UH, 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.

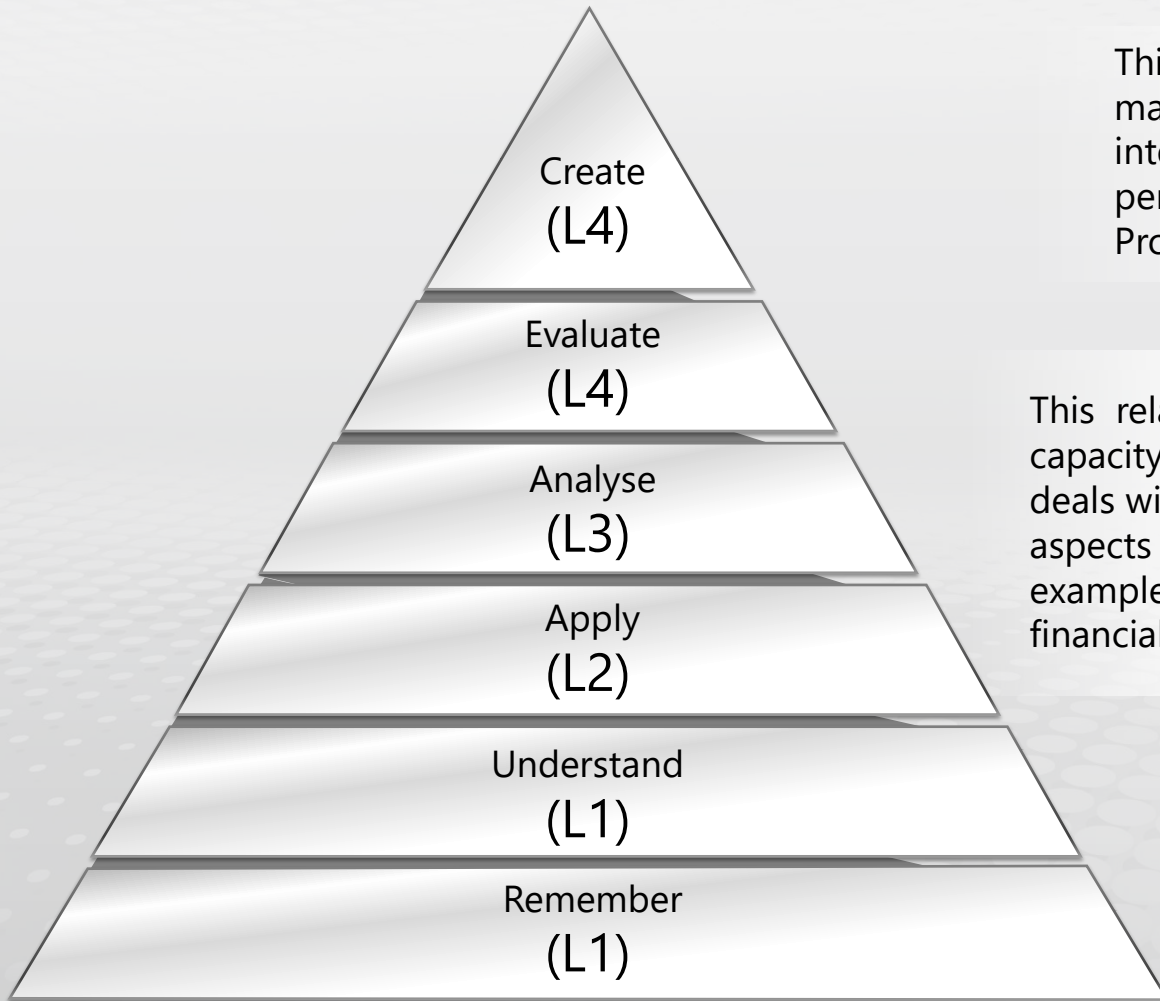
After inaugurating the first private defence manufacturing facility in UP Defence Industrial Corridor, Singh said, "More companies will invest in Lucknow and UP and the state will make a mark in defence and aerospace sector manufacturing." He also lauded CM Yogi Adityanath for important reforms and incentivising investment.

"I believe more private companies will invest in UP 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 ITI schools, hospitals and starting apprenticeship programmes," he said.

Our focus on **Human Resource Development**

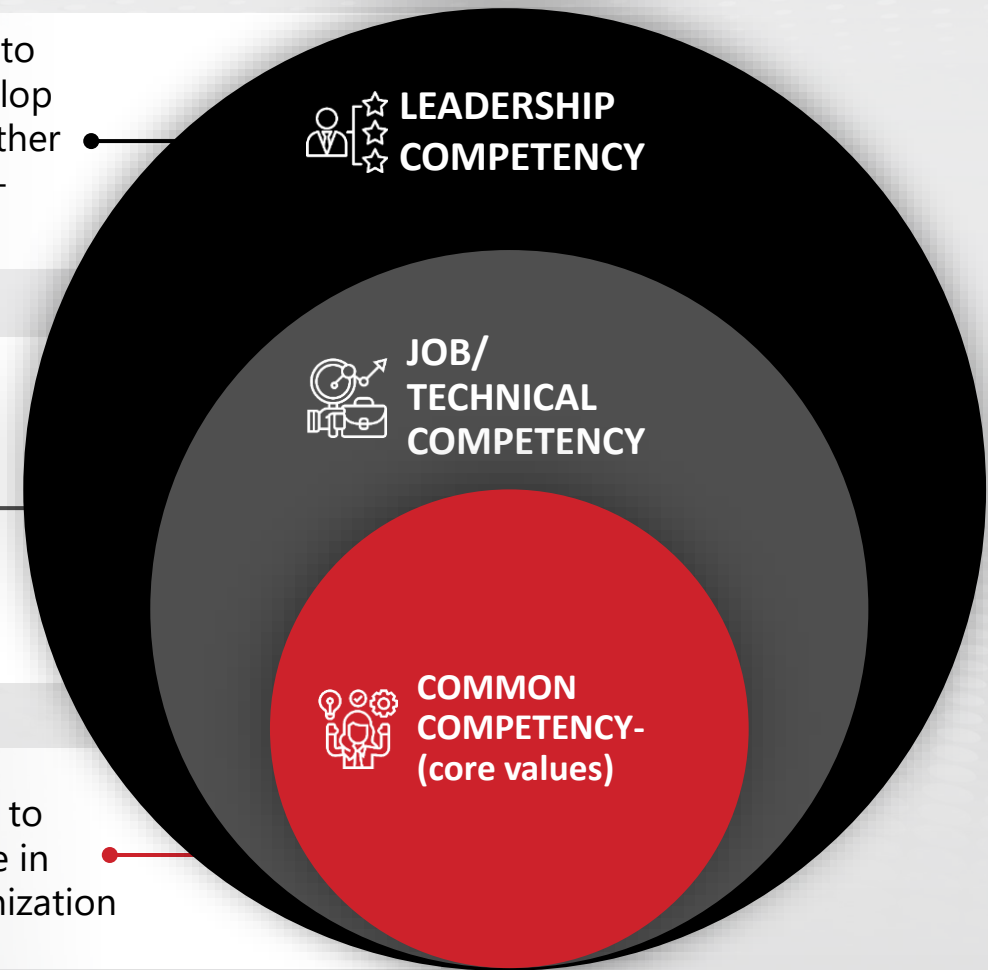
Training and Competency Development Framework.



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



- 750kW Roof Top Solar (AMTC)
- 750kW Wind Turbine (Mehsana)

FUTURE



- 10-12MW Solar Plant (Aerolloy Metals)
- >50% Energy consumption from renewable sources

Roadmap for Carbon Footprint

**A: Environments leader (1,5° C /SBTi
Validated Supplier & customers involved**

A : Scope 3 action plan

B :Scope 3 Measured

B : Action plan in progress on
scope 1& 2

C : Action plan defined on scopes 1 & 2
with objectives, schedule, organization,
resources& budget

C : Targets on scope 1 &2 defined &
communication done

D: Measures on scope 1 & 2 done with
validated protocole (as GHG
protocol),&verifiedby third party

D: Engaged in decarbonization approach
with regular measures

E: No structured approach but wants to
implements

E: No structured approach

Land at UP Defence Corridor

2025

**Supply-chain involved / Low
carbon freight ...**

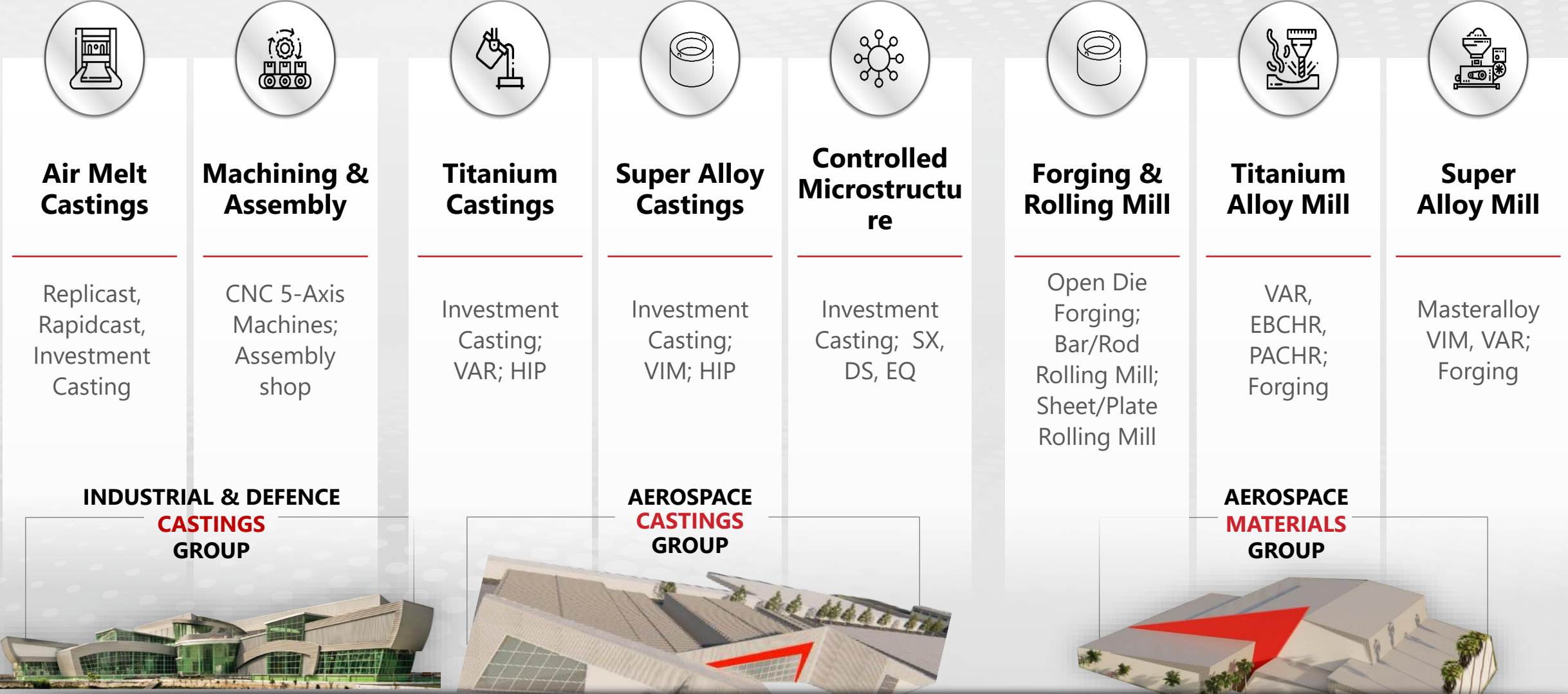
2024

**Green energy source
implemented & /or energy
reduction solution deployed ...**

2023

**Carbon reduction strategy
defined and targets in line
with the Paris agreement**

PTC & Aerolloy Technology Verticals



Technology – Rapidcast, Replicast, Investment Casting



RAPIDCAST

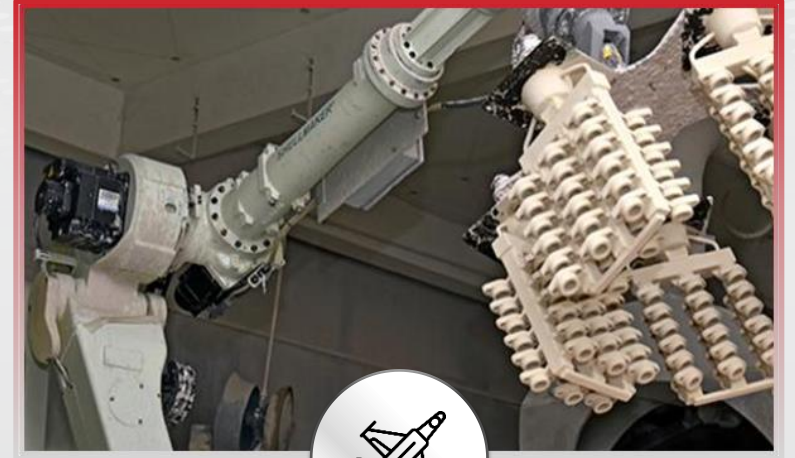
Quality – Value – Speed
up to **5,000 kgs** single piece

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



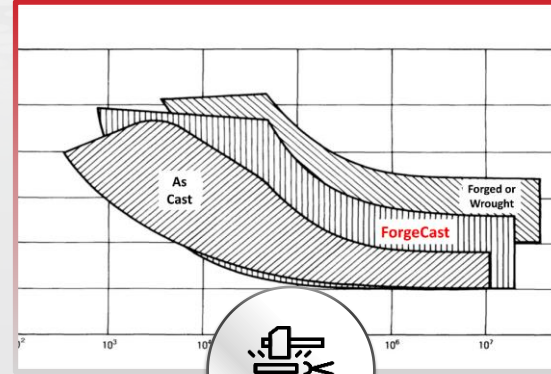
Vacuum melt casting
of Reactive alloys

Investment casting,
PrintCast, Replicast



Controlled Micro-Structure

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



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

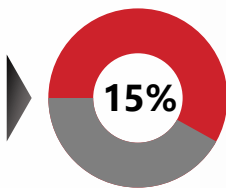
Titanium alloy ingots manufactured by recycling & remelting of scrap have equal acceptability compared to ingots manufactured using Titanium sponge (from ore)

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



Phase 1: Investment ~Rs. 150 crores




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)

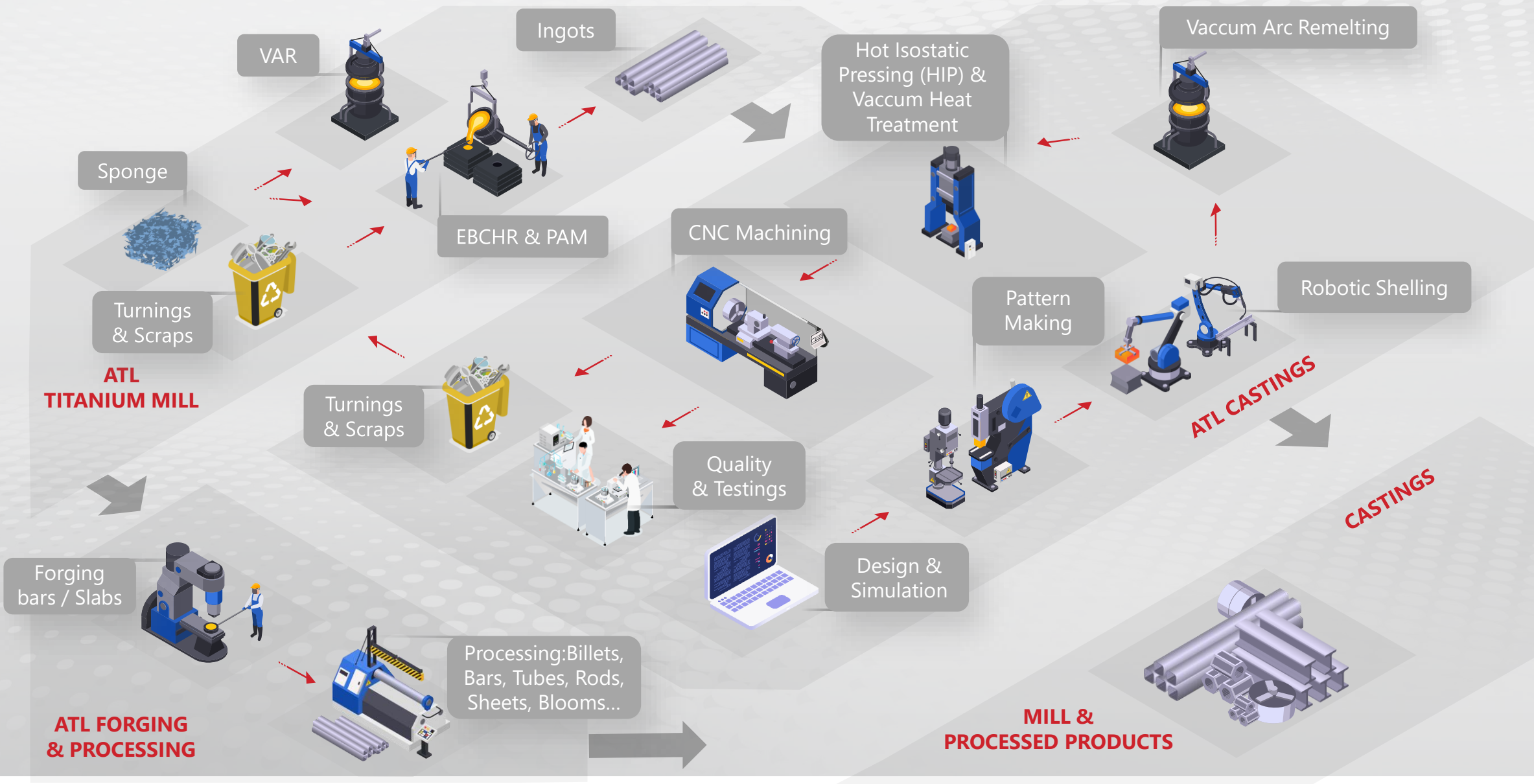
A primary melting process for the production of Super Alloy metal ingots with elevated chemical and mechanical homogeneity for highly demanding applications

Metals Recycling



Shows that **GreenTitanium[®]** will avoid **26.4 tonnes** CO₂ 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 CO₂ emissions.

Sustainability



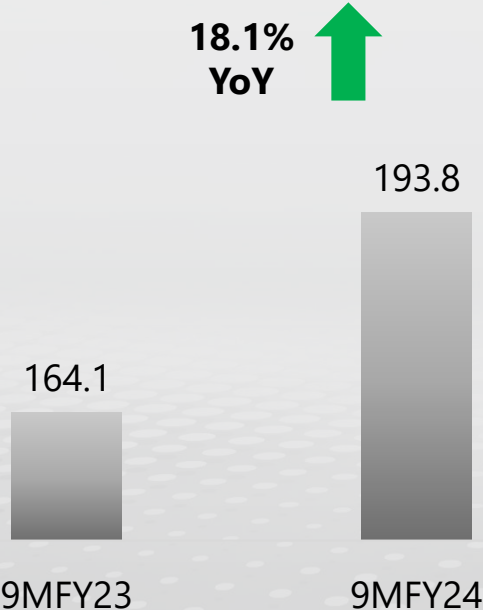


Q3 & 9M FY24: Result Highlights

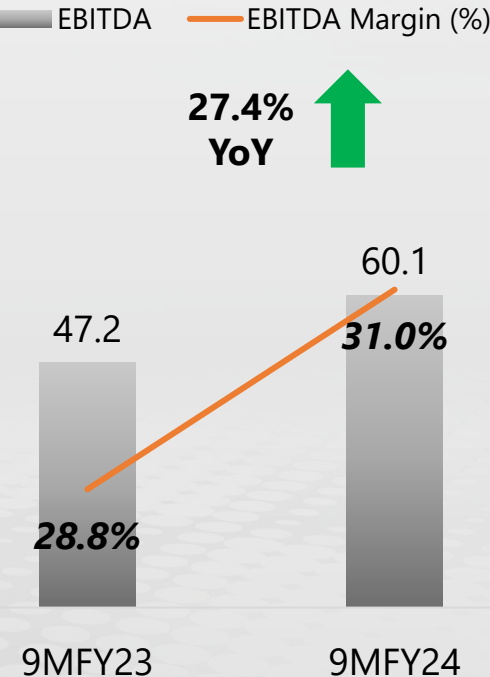
9M FY24 Consolidated Highlights

In Rs Crores

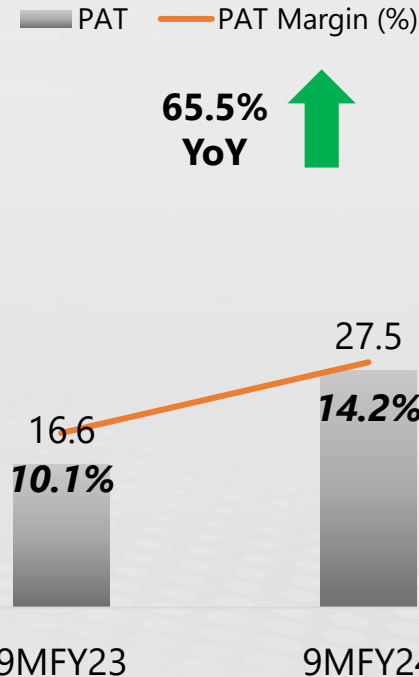
Total Income



EBITDA



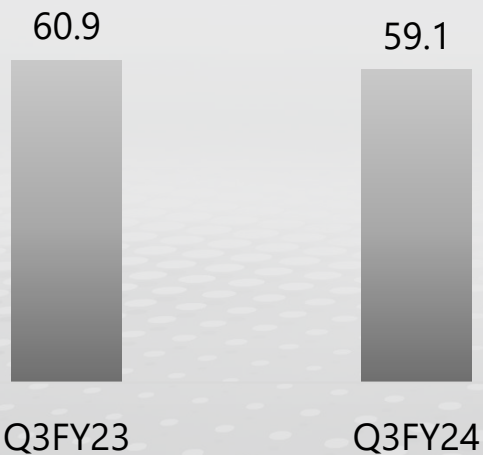
PAT



Q3 FY24 Consolidated Highlights

In Rs Crores

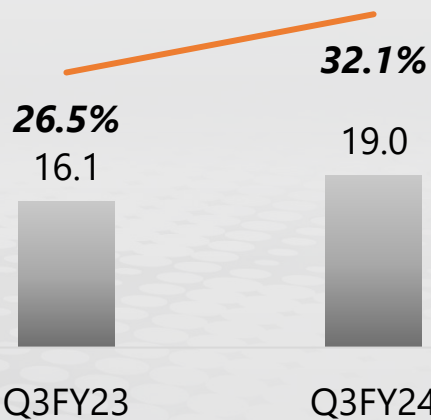
Total Income



EBITDA

EBITDA EBITDA Margin (%)

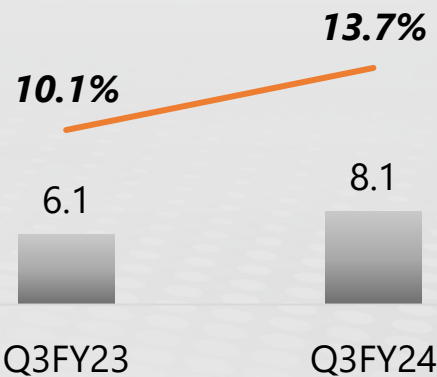
17.5%
YoY ↑









PAT

PAT PAT Margin (%)

32.5%
YoY ↑



Q3 & 9M FY24 Consolidated Highlights

| Particulars INR Crores | Q3FY24 | Q3FY23 | ▲ YoY | 9MFY24 | 9MFY23 | ▲ YoY |
|--|--------|--------|---------|--------|--------|---------|
|  Total Income | 59.1 | 60.9 | (3.0)% | 193.8 | 164.1 | 18.1% |
|  EBITDA | 18.9 | 16.1 | 17.5% | 60.1 | 47.2 | 27.4% |
|  EBITDA Margin% | 32.1% | 26.5% | 561 bps | 31.0% | 28.8% | 226 bps |
|  Profit Before Tax | 10.4 | 7.9 | 32.5% | 35.8 | 22.2 | 61.0% |
|  Profit After Tax | 8.1 | 6.1 | 32.5% | 27.5 | 16.6 | 65.5% |
|  PAT Margin% | 13.7% | 10.0% | 367 bps | 14.2% | 10.1% | 407 bps |

Management Remarks



Sachin Agarwal

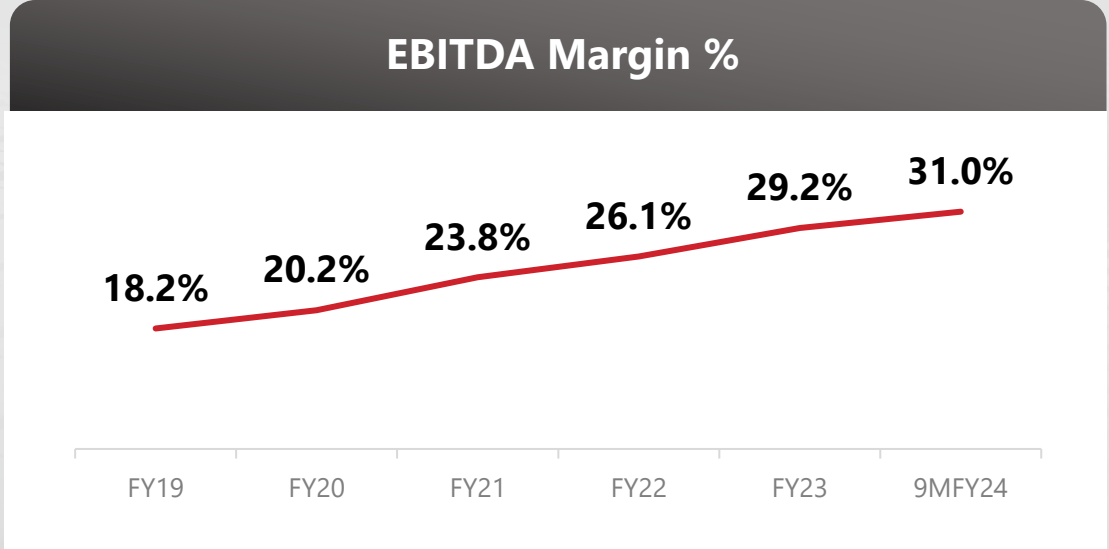
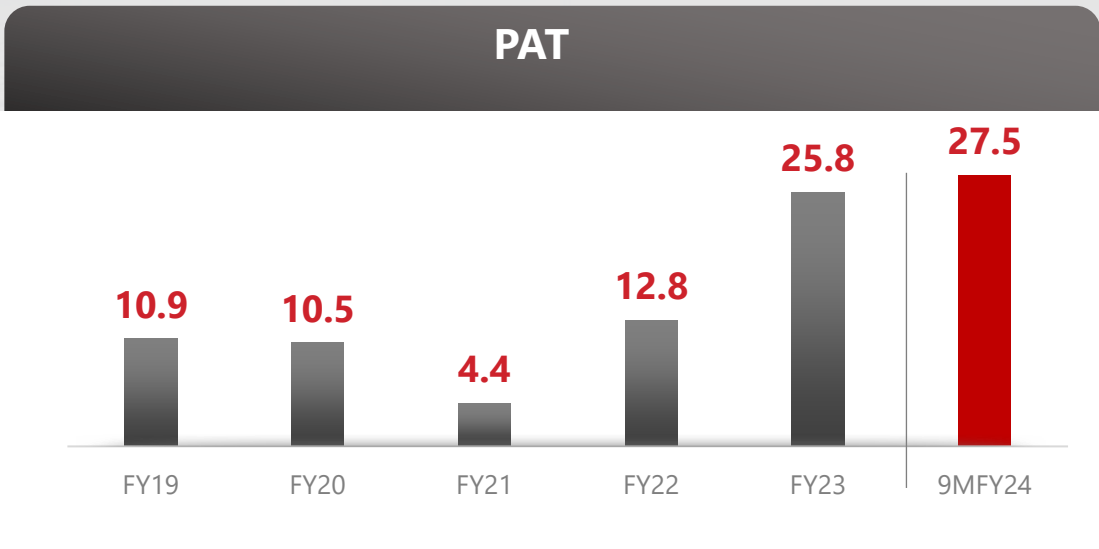
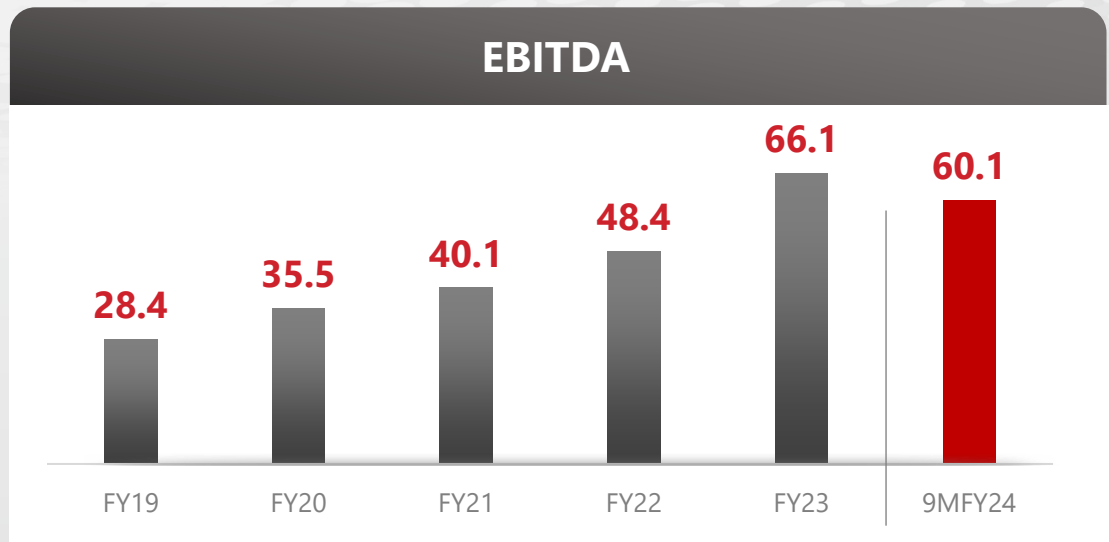
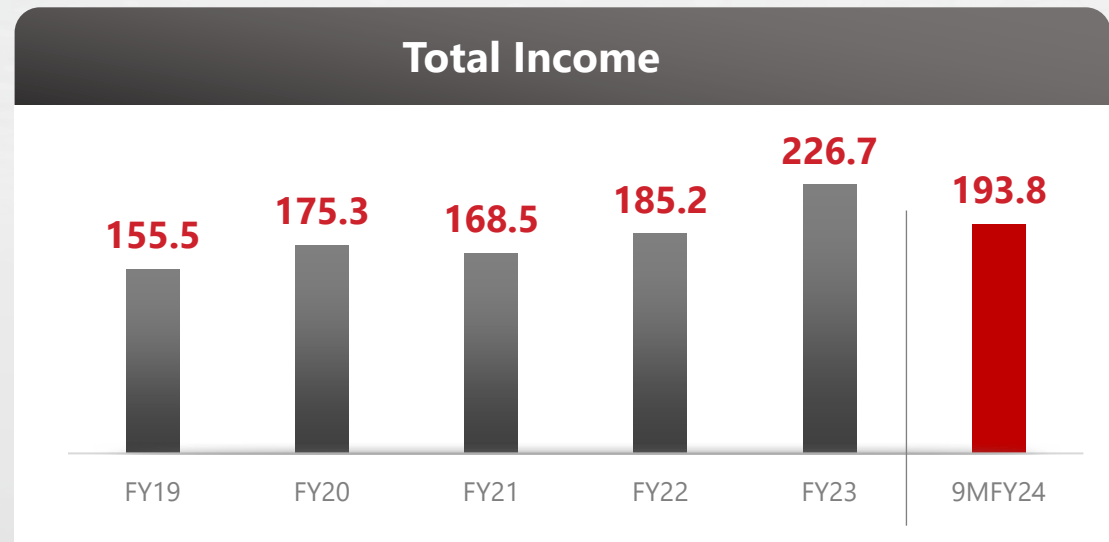
Chairman & MD

Mr. Sachin Agarwal, Chairman & Managing Director: *"I am happy to announce that the quarter has been good for us. We have seen an uptick in our operating profitability during this quarter due to a shift in revenue towards high-margin products. We have also entered into several prestigious MoUs in the Aerospace and Defence sectors with esteemed names like Nasmyth and HAL along with the signing of long-term purchase agreements with Safran Aircraft Engines and Dassault Aviation. These collaborations will allow us to leverage our expertise for significant growth and progress in the future.*

Our foray into the defence and aerospace sectors began a while ago, and we are now poised to see immense growth and promising developments. As we proceed on this journey, our vision of building a self-reliant Aatmanirbhar Bharat remains intact and prompts us to continue working with dedication and commitment.

I'm filled with optimism about the exciting opportunities that lie ahead and the new heights we aim to reach."

Key Financial Trends

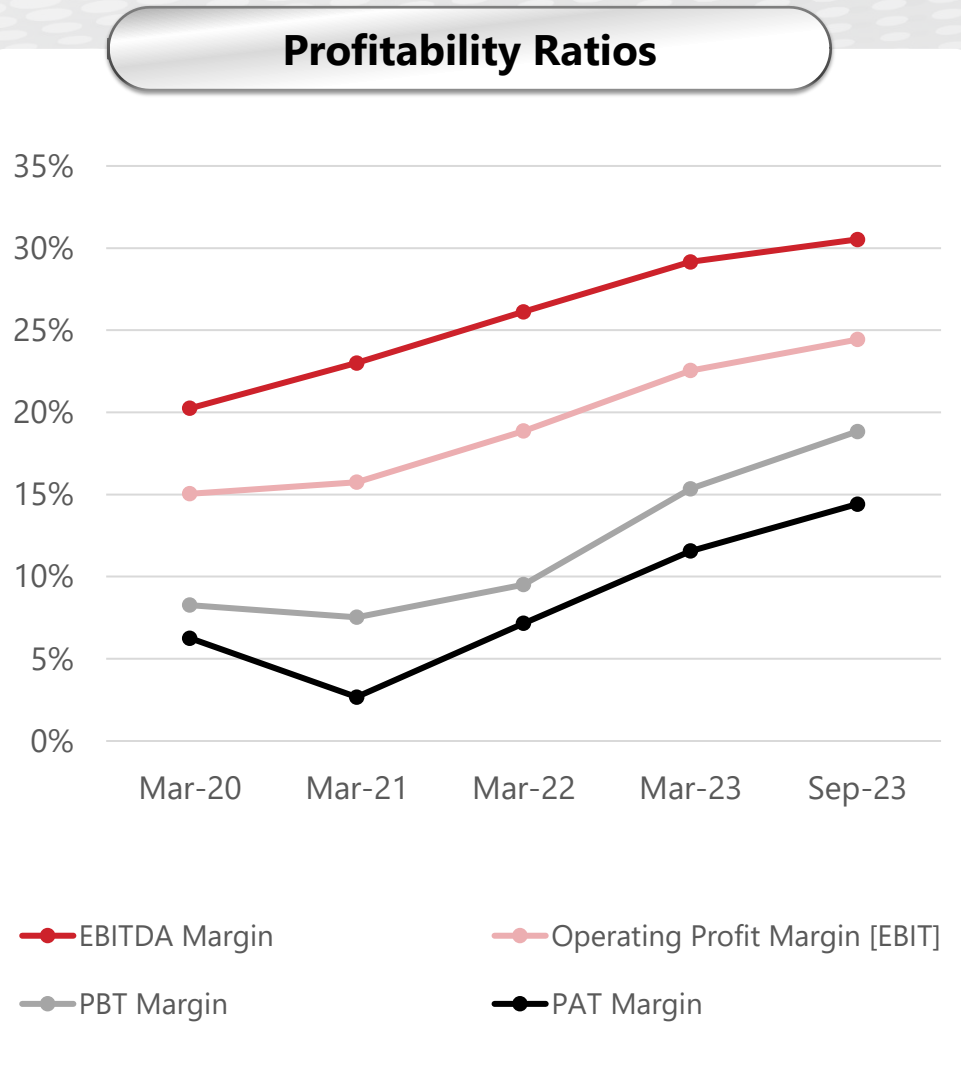


In Rs. Cr

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 Sep 30, 2023 |
|--------------------------------|----------------------|----------------------|----------------------|----------------------|--------------------|
| Profitability Ratios | | | | | |
| EBITDA Margin | 20.25% | 23.00% | 26.12% | 29.16% | 30.52% |
| Operating Profit Margin [EBIT] | 15.04% | 15.75% | 18.86% | 22.55% | 24.44% |
| PBT Margin | 8.27% | 7.53% | 9.51% | 15.35% | 18.83% |
| PAT Margin | 6.25% | 2.67% | 7.16% | 11.56% | 14.41% |
| Return on Equity | 6.97% | 2.80% | 7.60% | 8.26% | 7.94%* |

*Calculated on TTM basis






Update on Status of ongoing **CAPEX**

The company is establishing a world-class Strategic Materials Technology Complex in the Lucknow Node of the UP Defence Industrial Corridor. It has acquired key equipment for its Aerospace and Defence material manufacturing facility. This includes a Vacuum Arc Remelting Furnace, an Electron Beam Cold Hearth Remelting furnace, a Plasma Arc Melting furnace, and a Vacuum Induction Melting furnace. These will help to establish the largest single-site Titanium recycling and remelting facility in the world along with the capability to produce Nickel/Cobalt Superalloys for Aerospace and Defence applications.

| Particulars | Status |
|---------------------------|---|
| Foundation Completion: | The foundation work for the Vacuum Arc Remelting (VAR) Furnace, Plasma Arc Melting (PAM) Furnace and Sponge Press has been completed. |
| PEB Structure Foundation: | The foundation work of the Pre-Engineered Building (PEB) for the Aerospace Materials Plant in the Strategic Materials Technology Complex has been completed and 50% work for its Structure and flooring has been completed. |
| Arrival of Equipment: | The VAR furnace, EBCHR furnace, Plasma Arc Melting (PAM) furnace, and Sponge Press have all safely arrived on site and the installation and commissioning are underway. |
| Other Developments: | The foundation for the Blending System has been completed and installation is underway. |



In Process Fund Raise to **Fund the Expansion**

|  Mode of Fund Raise |  Instrument |  Aggregate Fund Raise |
|---|--|---|
| Preferential Issue | A Preferential Issue of up to 2,35,415 Equity Shares of Face Value of Rs.10/- (Rupees Ten Only) each, at an issue price of Rs. 6,000/- at an aggregate value of Rs. 141.24 Crores is under process. The Company has already obtained Shareholders' Approval and In-principle approval from the Stock Exchanges for this issue. | Preferential Issue ~₹141 Crores |

The Company has raised significant funds for its capex and expansion.



PASSION & COLLABORATION

Contact Us

PTC Industries Limited

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