



# **PTC Industries Limited**

AEROLLOY TECHNOLOGIES

a m

## TOWARDS PARITY

INVESTOR PRESENTATION JUNE 2023



- 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 forwardlooking 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.
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#### Current Macro Themes





### Global Supply Chain Disruption (China Plus One)





#### Global supply chain continues to shift away from China, but it remains the top sourcing location

American and European companies are gradually reducing their reliance on China, and its popularity as a sourcing market among Western buyers took a hit during the pandemic

In 2019, 96 per cent of US-based companies and 100 per cent of Europe-based companies listed China as one of their top-three sourcing countries, but those proportions respectively dropped to 77 and 80 per cent in the first quarter of this year, according to Qima, a provider of supply-chain-compliance solutions that conducted the survey. Changes in global commerce

Trade tensions rose around the world, particularly between USA & China



#### COVID-19's Effects

Huge Reliance on China: Post-Covid Recognition of the Need for Reorientation and Diversification The long-term Chinese closure has disrupted supply chains & purchasing from China Most businesses recognized their reliance on China & diversified their supply chains to countries such as India



# INDIA has a huge opportunity

The government's push to boost manufacturing

Many countries, especially India, have a huge opportunity to benefit from realignment for export

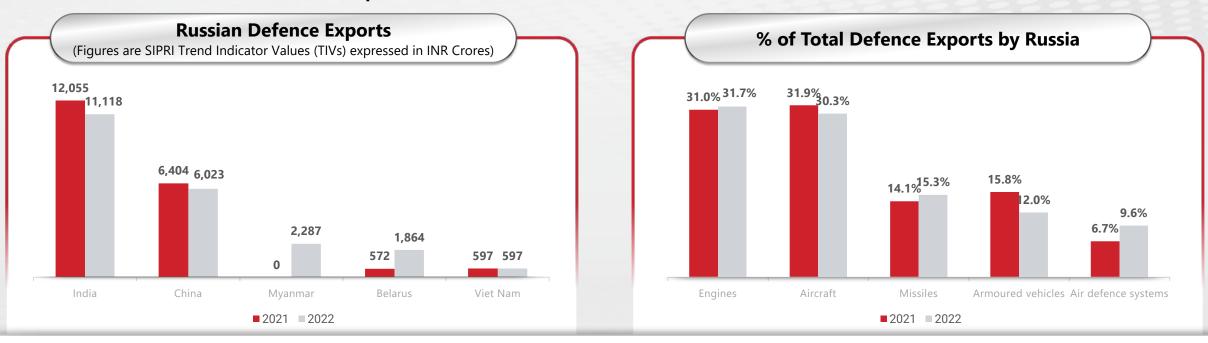
Source: World Exports.com | \*According to United Nations Statistics Division a Exchange rate: 82.85 (USD -NR)



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### **Russia-Ukraine War** Implications



Source: World Economic Forum | World Exports.com Exchange rate: 82.85 (USD -NR)



### Titanium – An Untapped Opportunity



**CLICK HFRF** 

#### MARKETSHEARD ON THE STREET

#### The West Must Wean Itself Off Russian Titanium

Aerospace companies like Airbus need alternative sources of titanium sponge to diversify their supply chains and bolster national security



Russia produced roughly a fifth of global stanium sponge supplies before the pandemic. PHOTO: DONAT SOROKIN/TASS/2UMA PRESS

By Jon Sindreu Follow

Europe's natural gas crisis shows the problem with industrial strategies that rely on Vladimir Putin. Some Western governments and companies still haven't

# Airbus says to decouple from Russian titanium 'in months'

MUNICH, Dec 1 (Reuters) - Airbus (AIR.PA) will halt its reliance on Russia for titanium supplies within months, a senior executive said on Thursday.

Russia is the largest producer of titanium, a strategic metal prized for its strength relative to its weight. It is used mainly in aircraft engines and landing gear for large planes.



Aerospace & Defense

3 minute read - March 8, 2022 412 AM GMT+5:30 - Last Updatest a year ago

#### Boeing suspends Russian titanium as Airbus keeps buying

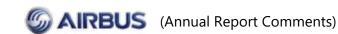
By Aishwarya Nair and Tim Hepher





Most important raw materials required for our aerospace products are aluminium (sheet, plate, forgings and extrusions), titanium (sheet, plate, forgings and extrusions) and composites (including carbon and boron)

We suspended maintenance and support for Russian customers, & then in spirit of doing the right thing, we had suspended titanium import



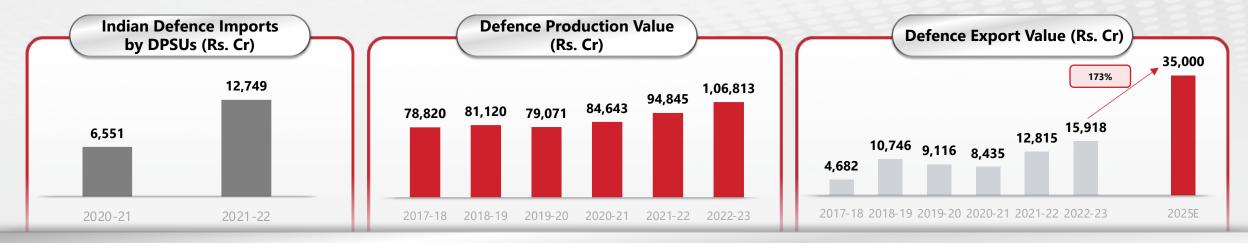
Part of the titanium used is sourced from Russia, both directly and indirectly through Company's suppliers

While geopolitical risks are integrated into Company's titanium sourcing policies, impact of Russia's invasion of Ukraine on Company's ability to source materials and components and any future expansion of sanctions is being reviewed





### Aatmanirbhar Bharat (Make in India)



The Government of India is focused on "Make in India" in Defence Sector to Reduce Imports and Boost Exports | Opportunity of Indian Private Players

The Government to ban the import of more than Indigenisation Rising in India ~400 Platforms/ Weapon/Systems/ Equipment by 2032 Indian vendors (Rs. Cr) Foreign vendors (Rs. Cr) **UP** Corridor **Tamil Nadu Corridor** % indegenisation 80% 600 **INVESTMENT IN UP CORRIDOR TILL DATE** 60% 400 **Rs. 3,732 crores** 

FY21

40%

0%

**Investment by PTC Industries** 

Rs. 500 crores

KEY HIGHLIGHTS OF THE POLICY FOR INDIGENIZATION OF COMPONENTS AND SPARES USED IN DEFENCE PLATFORMS (8th MAR 2019)

The Government is setting up Defence

Corridors to push domestic manufacturing

Value of components (including alloys & special materials) imported by Defence PSUs & Ordnance Factories: ~Rs. 13,810 crores (2017-18)

According to an estimate nearly 1 Lakh **components** used for various Defence & Aerospace related platforms are being imported

Source: Defence Ministry

FY16

300

100

Home | Department of Defence Production | MOD | Government Of India | India (ddpmod.gov.in)

FY19

FY20

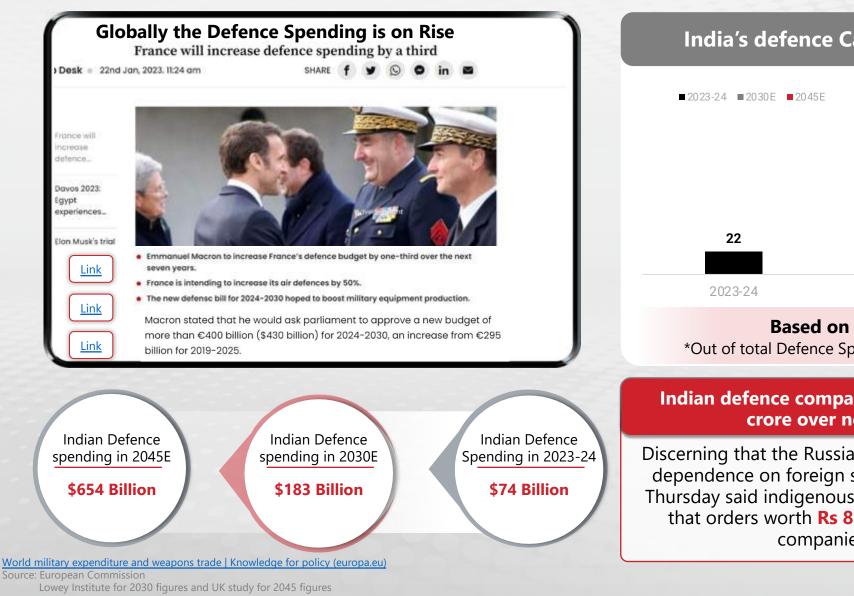


FY17

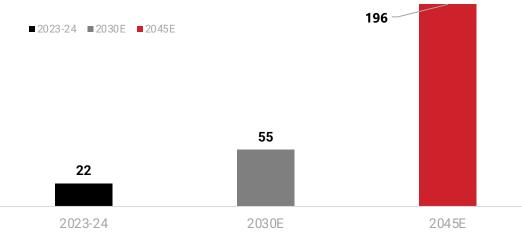
FY18

### Increase in Defence Capital Expenditure





#### India's defence Capital Expenditure (\$ Billion)



#### **Based on 30% of Defence Budget**

\*Out of total Defence Spending ~30% is the capital expenditure

#### Indian defence companies will get orders worth Rs 8 lakh crore over next 7 yrs, says Army chief

Discerning that the Russia-Ukraine war has shown the need to cut dependence on foreign suppliers, Army chief Gen Manoj Pande Thursday said indigenous weapon system is the way forward and that orders worth **Rs 8 lakh** crore will be placed with Indian companies in the next **7-8 years**.

### Technology driven opportunities

#### **Global Supply Chain Disruption**

Opens a huge opportunity for PTC in Industrial as well as Aerospace and Defence Sector

#### **Russia Ukraine War Implications**

2

Have opened gates for supply of Titanium Recently acquired Technologies Vacuum Arc Remelter **Electron Beam Cold Hearth** Remelting furnace Pioneer to bring this technology to India

AEROLLOY

PTC INDUSTRIES

**Building cutting** edge Technology

Widenina Offerings

#### **Defence Spending and** Indigenisation in India is on rise

3

PTC's vision of PARITY gives opportunity. Investing in the UP Defence Industrial Corridor to develop cutting-edge technology



### Our Dharma – achieving Parity

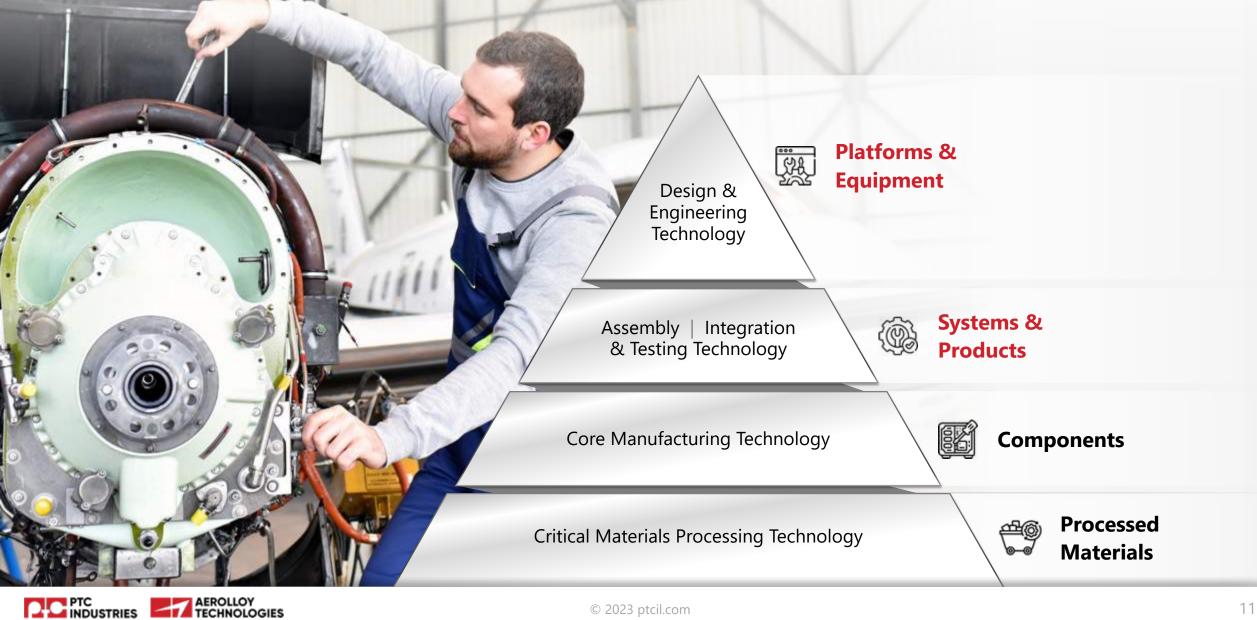
इहैव तैर्जितः सर्गो येषां साम्ये स्थितं मनः । निर्दोषं हि समं ब्रह्म तस्माद् ब्रह्मणि ते स्थिताः

> 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.



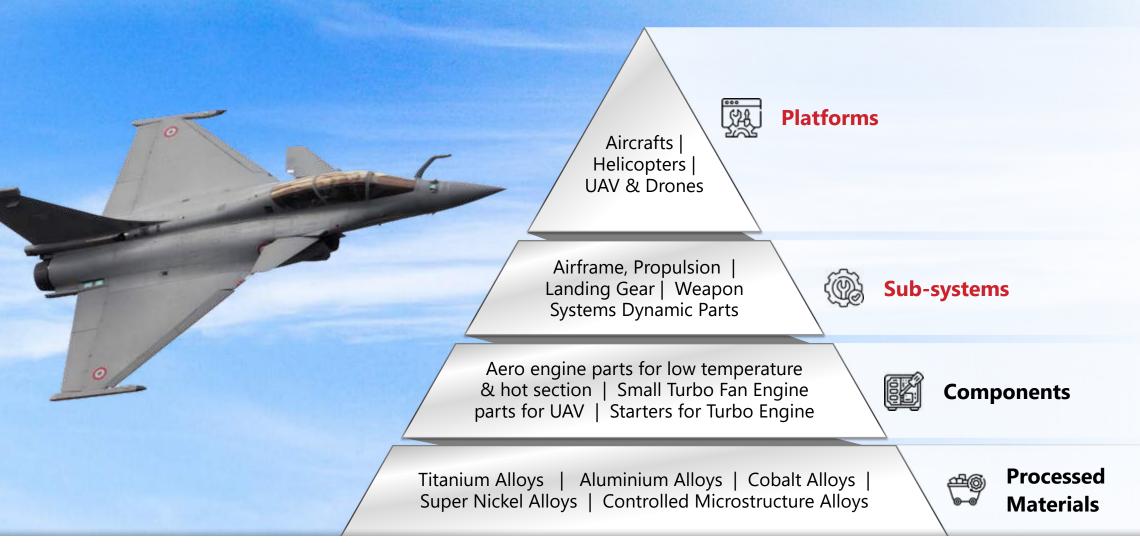
### Technology Pyramid





#### Air Defence Systems





### Technology Pyramid – Air Defence



• Auminium • Copper • Magnesium • Manganese



Source: European Commission



### Indian Air Defence Opportunities



#### HAL GETTING ENQUIRIES FROM VARIOUS COUNTRIES FOR ITS ADVANCED HELICOPTERS

Thursday, January 19, 2023 by Indian Defence News



#### INDIA'S LIGHT COMBAT ATTACK HELICOPTER 'PRACHAND' IN LIMELIGHT FOR GLOBAL EXPORT COMPETITION

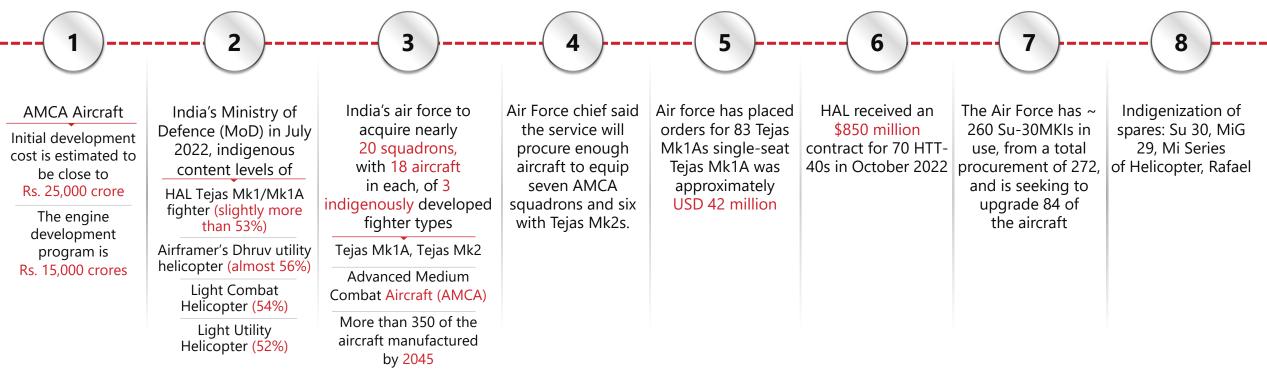
Wednesday, December 07, 2022 by Indian Defence News



INDIA IS AN IDEAL CANDIDATE FOR IMPROVING ARMENIA'S SU-30SM FIGHTER JETS WITH ASTRA AND BRAHMOS MISSILES

Friday, January 13, 2023 by Indian Defence News

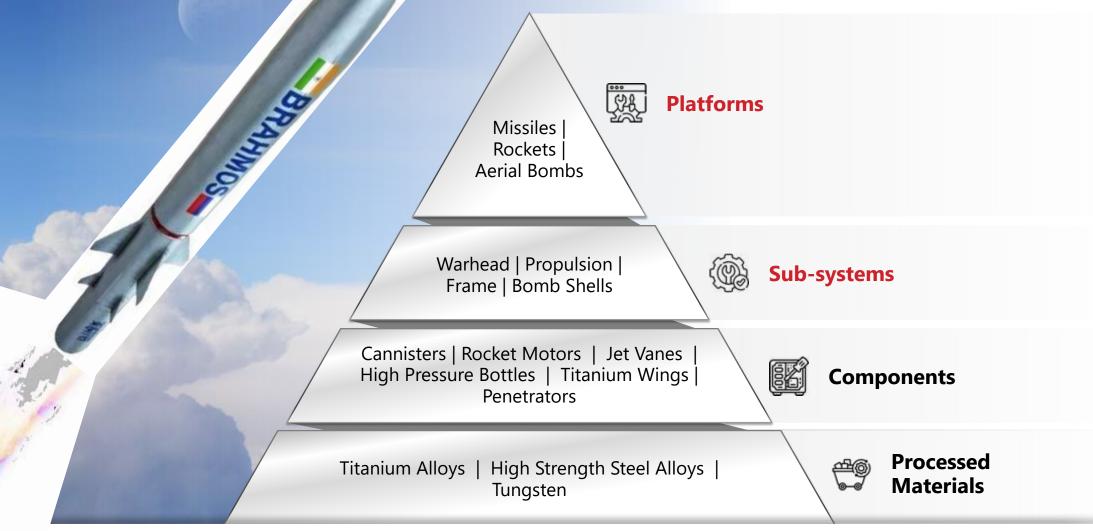






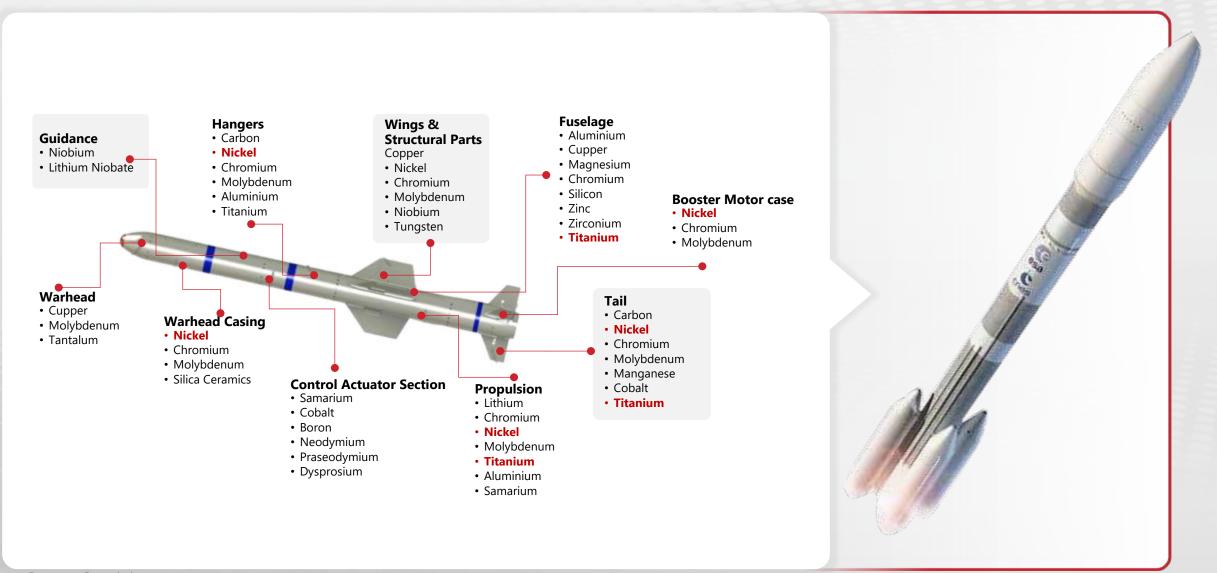
### Strategic Defence Systems







### Technology Pyramid – Strategic Systems



Source: European Commission



### Indian Strategic Systems Opportunities





#### ARMY TO GET INDIGENOUSLY DEVELOPED HELINA ANTI-TANK MISSILES, VSHORAD MISSILE SYSTEM WORTH RS 4,276 CR

Wednesday, January 11,2023 by Indian Defence News



#### PRODUCTION OF QRSAM TO START WITHIN SIX MONTHS FOR INDUCTION IN INDIAN ARMY

Thursday, January 05, 2023 by Indian Defence News



#### YEAR ENDER 2022: BRAHMOS, AGNI, PRITHVI II: LETHAL MISSILES INDIAN TESTED THIS YEAR AMID TWIN BORDER THREATS

Friday, December 30, 2022 by Indian Defence News



Successful test firing of a highly advanced version of BRAHMOS air-launched missile from Su-30MKI



New Brahmos Manufacturing Center in Lucknow will produce from 80 to 100 Brahmos missiles per year (Indian Defence Ministry's press office)

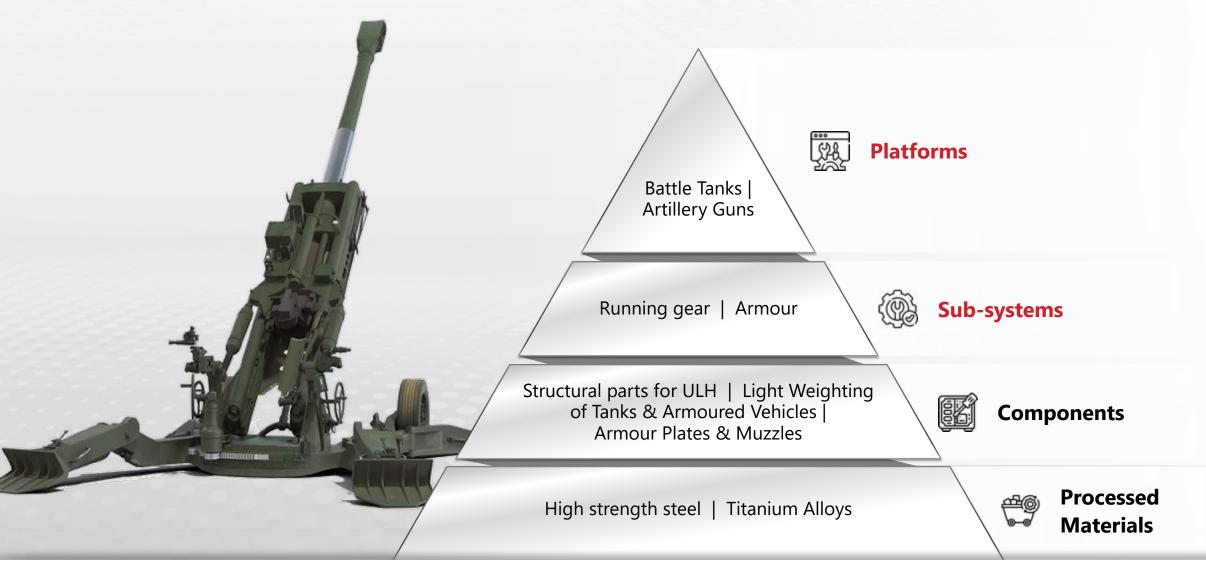


Philippines accepted Indian BrahMos Aerospace proposal worth \$374.9 million to supply a Shore-based Anti-Ship Missile System Acquisition for navy



### Land Defence Systems







### Technology Pyramid - Land Defence

**Night vision** 

binoculars

Germanium

Copper

Tantalum

Armour

Tungsten

Composites

Titanium

Infrared vision

binoculars

Mercury

cadmium

telluride

**Optic-mechanic** 

devices (frames)

Carbon

Carbon composites

Beryllium

Cupper

Hull

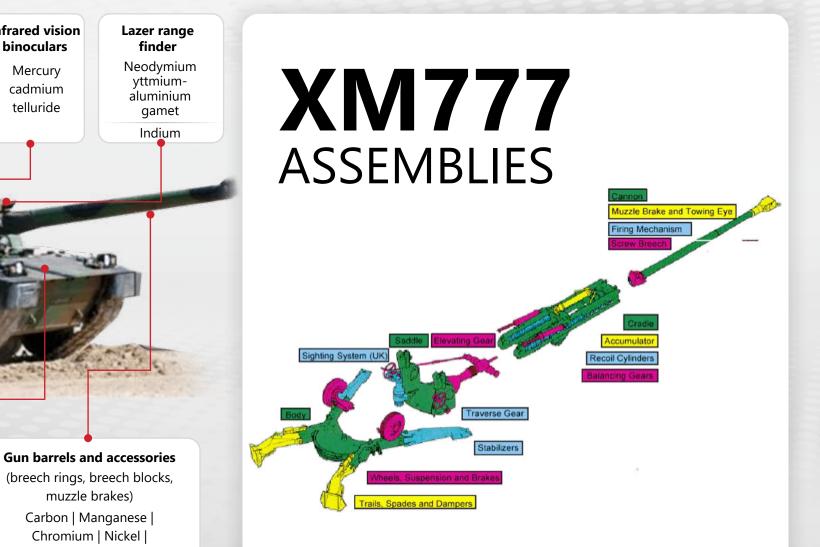
Beyllium

Light aluminum

alloys

Very high hardness

steel



Source: European Commission

Glass and

mirrors, lens,

optical windows

**Ouartz Ceramics** 

SIT

Communication

Gallium Arsenide

Gallium Nitrite

Beryllium

Silver



Molybderium | Vanadium



#### M777 Howtizer (Domestic & Global)



Spares, Fabrication and Assembly of sub systems



New guns requirement for India ~>50%



It is now the part of negative list of GOI

#### BAE SYSTEMS IN INDIGENIZATION OF INDIAN DEFENCE MANUFACTURING

TUESDAY, MARCH 10, 2020 **BY** INDIAN DEFENCE NEWS

India ordered 145 howitzers from the US for \$750 million in November 2016. As part of the deal, M777 manufacturer BAE Systems will supply 25 ready-built howitzers and the remaining 120 guns are being built locally

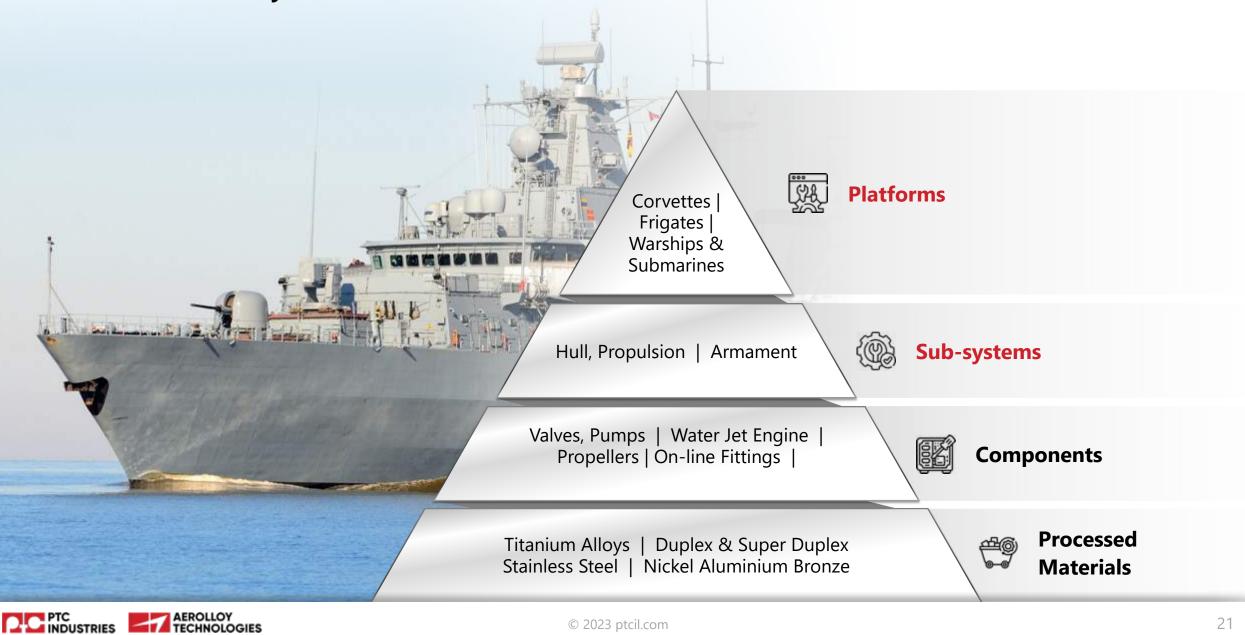
#### WATCH: INDIAN ARMY'S ARTILLERY GETS MORE FIREPOWER WITH INDUCTION OF VAJRA & M777 HOWITZERS

SATURDAY, NOVEMBER 10, 2018 **BY** INDIAN DEFENCE NEWS

The decks for the Indian army's proposal for 814 155mm/52 calibre mounted guns systems (MGS), at a cost of Rs 15,750 crore (\$2.55 billion) were cleared by the former defence minister Manohar Parrikar at DAC meeting a couple of years ago.

#### Naval Defence Systems







## Technology Pyramid - Naval Defence

Decks	Hanger,	Radar	Hull	Torpedoes	Periscope,	Propulsion	Hull
Aluminium	habitations, pipes	Gold	Nickel	Lithium	sensors	Lithium	Nickel
Composites	Tungsten	Gallium	Chromium	Aluminium	Carbon	Cobalt	Chromium
Chromium	Nickel	Aluminium	Molybderum	Magnesium	composite	Samarium	Copper
Nickel	Chromium		Titanium	Manganese	Piezoelectric	Barium	Molybdenun
Molybderum	Molybderum			Zirconium	ceramics	Titanium	Titanium
Titanium	Aluminium			Chromium		Nickel	Manganese
	•	•				Aluminium	Silicon
						Copper	Vanadium
Propulsion		Gun Nickel Molybderum Chromium Manganese Vanadium Bow sonar Carbon				Molybdenum	Niobium
Samarium Barium Titanium Nickel Aluminium Copper							

Source: European Commission



### Indian Naval Defence Opportunities

#### INDIAN NAVY MAY REPEAT KALVERI CLASS ATTACK SUBMARINE ORDER: REPORT

TUESDAY, JANUARY 24, 2023 BY INDIAN DEFENCE NEWS

On July 20, 2021, the Ministry of Defence floated a request for proposal (RFP) for AIP equipped six Project 75 I class submarines at the cost of ₹40,000 crore. Since it is normal for Indian military-civilian bureaucracy to take at least 10-15 years to complete any big acquisition, it means that the current Scorpene submarine line at MDL will go to seed with the next set of 75 I class being built in late 2030s with a fresh massive investment on submarine line. All this appears to be set for a change.

#### Cochin Shipyard (CSL) link

According to ICICI Securities, CSL's Q2FY23 performance was impacted mainly on account of slower than expected execution; possibly in its major active projects. Order backlog is estimated to be at around Rs. 21,000 crore post the recent vessels contract of Rs 1,000/- crore from Europe.

The majority of the large contracts in order-book is expected to witness meaningful execution from FY24 onwards (like 6 NG Missile Vessels, ASW corvettes, export order of vessels). Moreover, Ship repair segment, which is already doing better, would see more good opportunity in the future post the expansion of facilities at Mumbai, Kolkata and Port-Blair, it said. Rs 48,000-cr orderbook nominated primarily by Navy; margins pegged at 7.5-8%: Mazagon Dock Shipbuilders



By Mangalam Maloo 🕑 | Nigel D'Souza 😏

Nov 11, 2021 9:02 PM IST (Published)

# With record ₹22,930-cr order book, Garden Reach Shipbuilders eyesdouble turnover

November 25, 2022 - Updated 07:47 pm IST | November 25

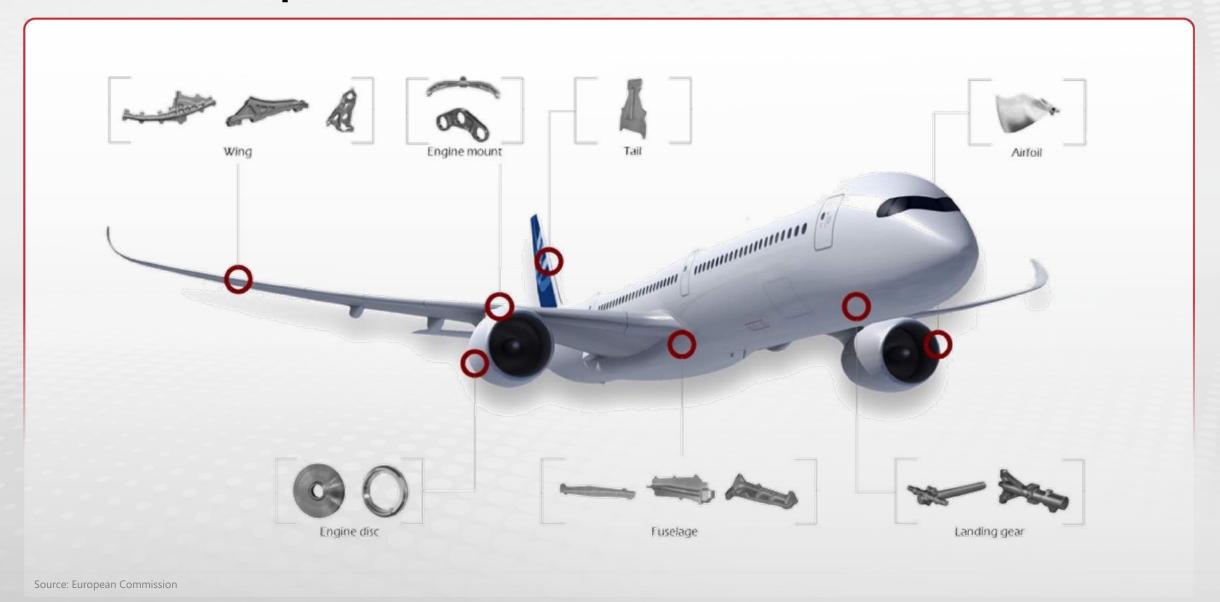
The MD said he was "eagerly looking forward" to the company's riverine electric passenger vessel being built for West Bengal govt, as electric vessels are the need of the hour

BY BL CHENNAI BUREAU

Government of India owned naval shipbuilder, Garden Reach Shipbuilders & Engineers Ltd, has a record order book of ₹22,930 crore. This is for seven shipbuilding projects, two of which are expected to be completed in the current year. The other five will be executed in 2024-25.

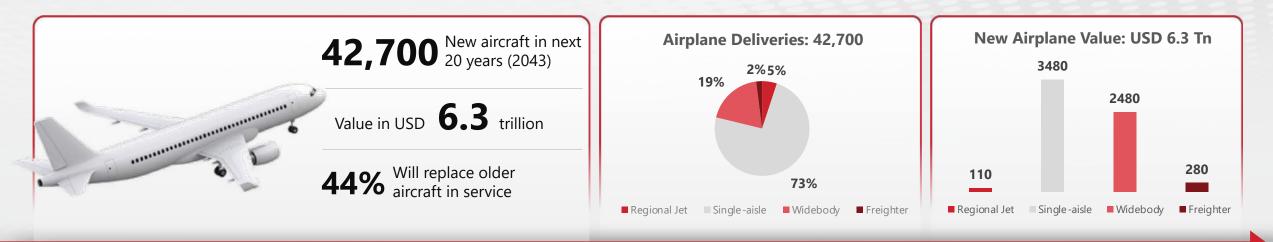


### Global Civil Aerospace

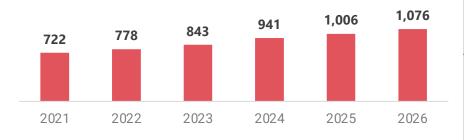




### Global **Civil Aerospace** Opportunities







The Indian Aerospace & Defence market to reach ~US\$ 70 billion by 2030

#### Tapping the opportunity in Aerospace and Defence Market (A&D)



Industry is facing supply-chain disruptions amid geopolitical issues



Creating opportunity for Asian players (along with the China plus one policy India is a bigger beneficiary in Aerospace and Defence Market)

The Government's push for Make in India and exports to thrust domestic demand in A&D sector

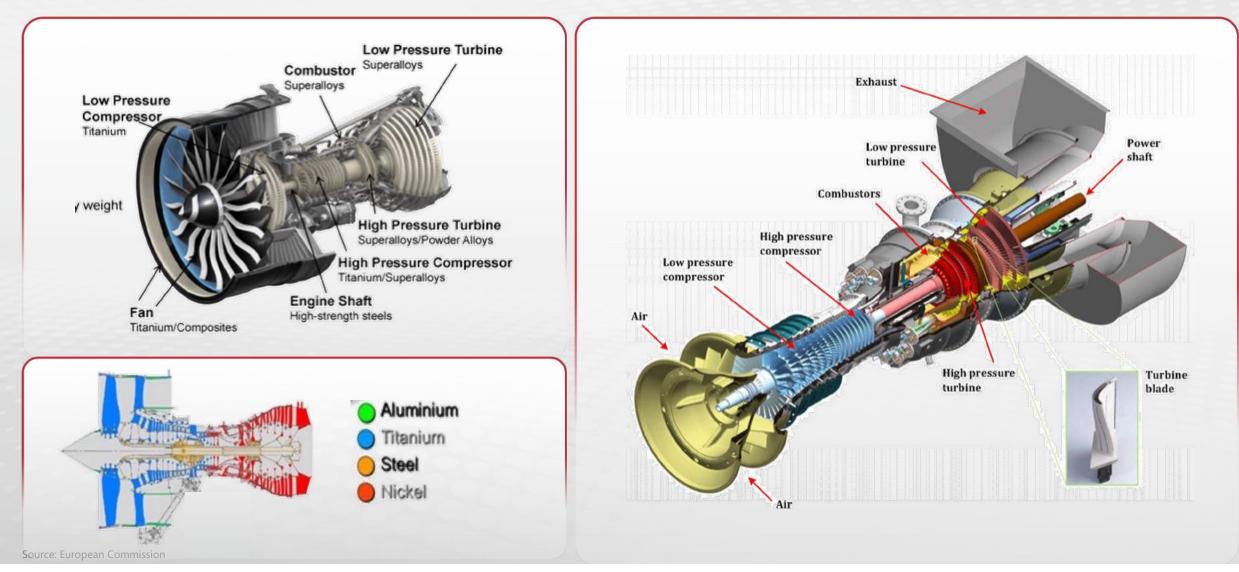
PTC's technological advantage is setting stage to cater to opportunities in this market

Source: Titanium USA Report | IBEF



### Aero Engines & Gas Turbines







### Indian Aero Engines Opportunities



#### MT30 Marine Gas Turbine

#### 21<sup>ST</sup> CENTURY PROPULSION FOR INDIAN NAVY WARSHIPS: ROLLS-ROYCE AND HAL MOU FOR MT30 MARINE ENGINES

Sunday, May 8, 20121 by Indian Defence News



#### DEFENCE EXPERTS URGED THE INDIAN GOVERNMENT TO MAKE AERO ENGINES IN INDIA FOR SELF RELIANCE

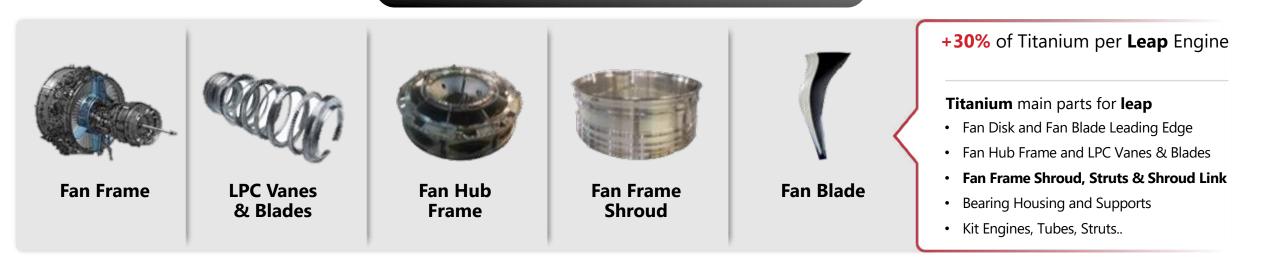
Sunday, July 21, 2019 by Indian Defence News



#### DRDO'S TURBO FAN ENGINE FOR UAVS WILL MAKE INDIA SELF-RELIANT IN THIS COMPLEX AND CRITIVCAL TECHNOLOGY: G. SATHEESH REDDY, SECRETARY DDR&D & CHAIRMAN DRDO

Thursday, November 25, 2021 by Indian Defence News

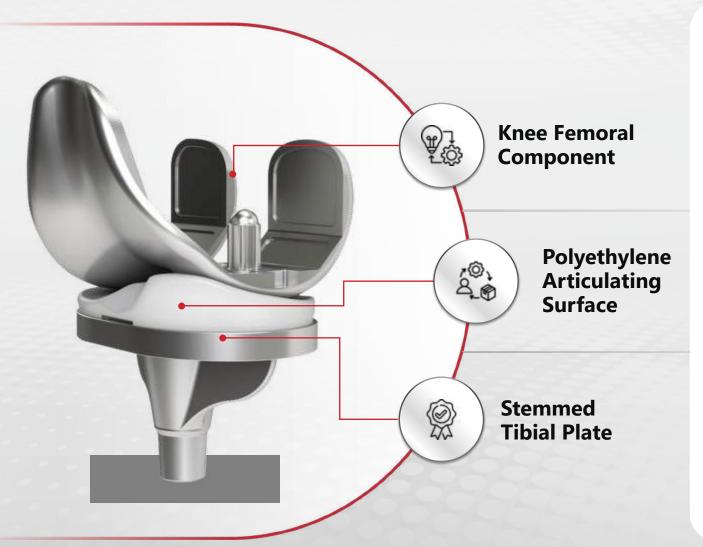
#### Greater use of lightweight materials



AMCA Aero Engines: The project's initial development cost is estimated to be close to Rs. 25,000 cr, out of which engine development program is Rs. 15,000 cr

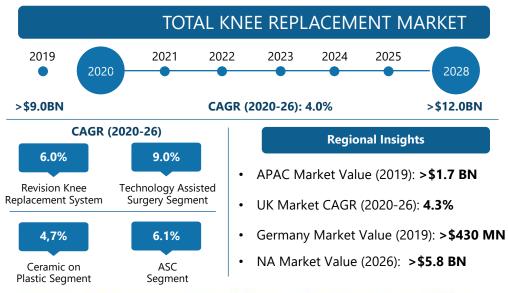


### **Medical Implants**



#### **Knee Replacement Market Size**

Total Knee Replacement Market Size was valued over USD 9 Billion in 2019 and is expected to grow at over 4.5% CAGR up to 2026. Total Knee Replacement is a surgical procedure to resurface a damaged knee due to arthritis. Growing trend among doctors for using robotics technologies to treat knee arthroplasty is booming.



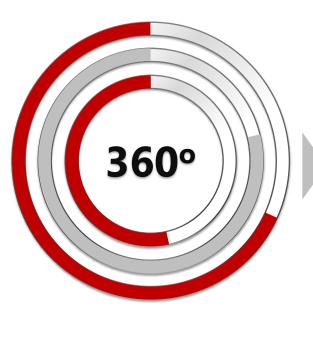
Total Knee Replacement Market Share - Industry Size Report 2018-... www.gminsights.com/industry-analysis/total-knee-replacement-market

Source: European Commission

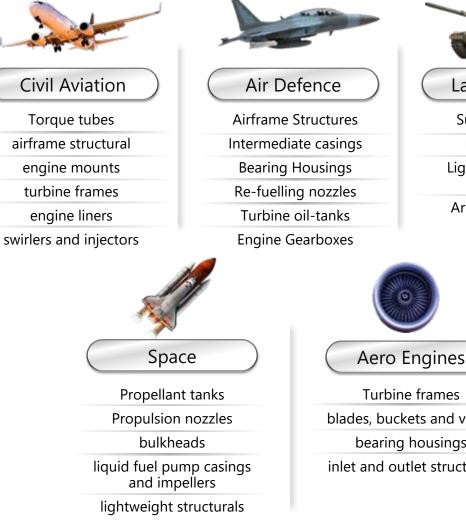


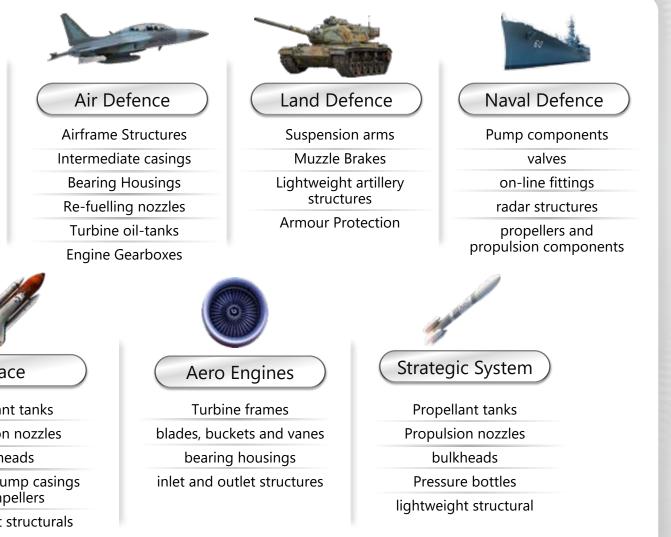
### Platform Independent Core Manufacturing Technologies

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

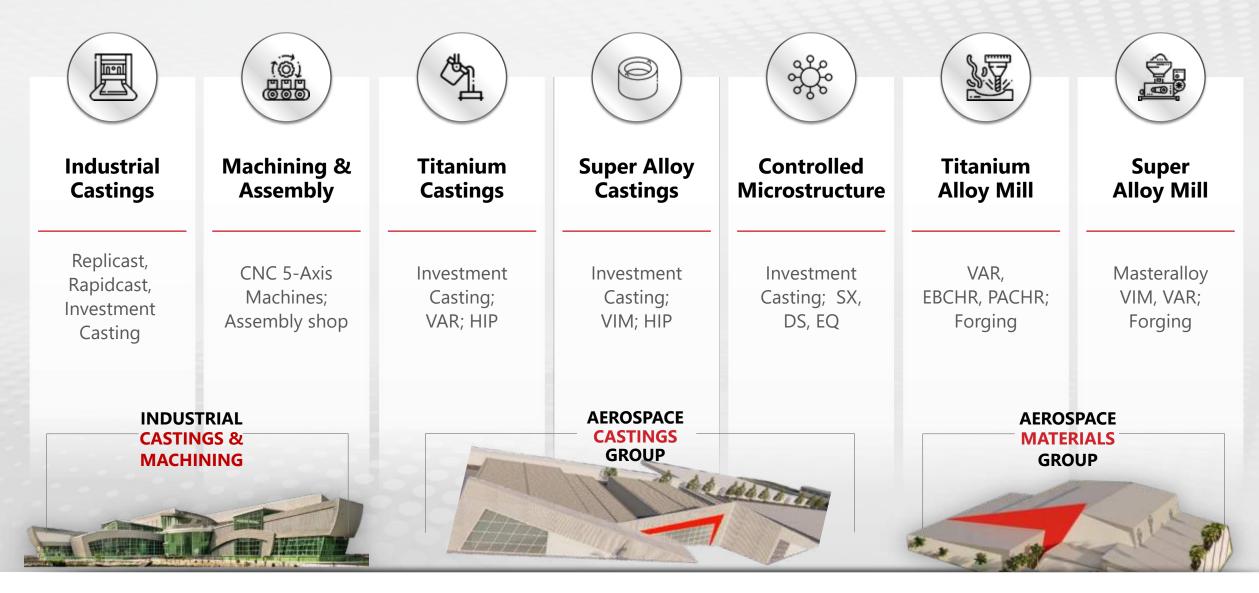


AEROLLOY TECHNOLOGIES





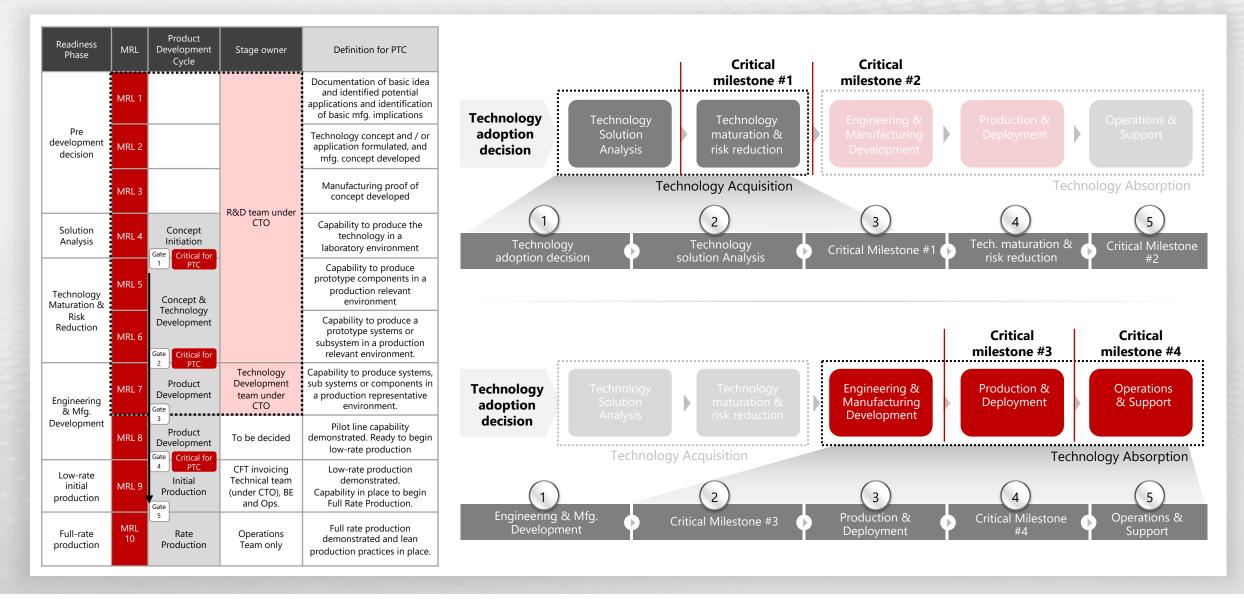
### PTC & Aerolloy Technology Verticals

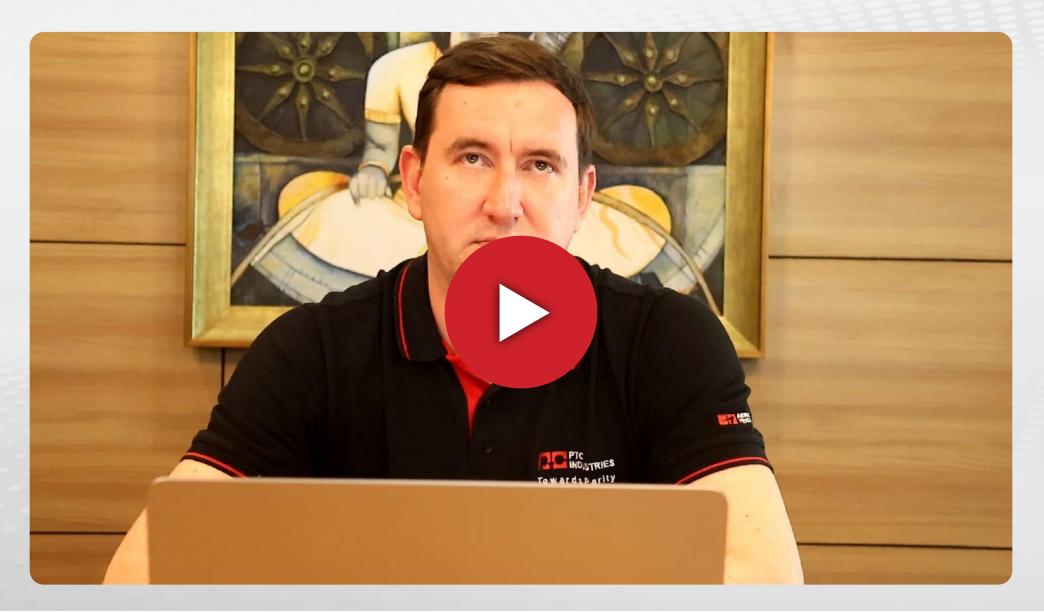






### Technology Development Process







\*

### Developing Cutting-Edge Technologies









# INDUSTRIAL CASTINGS

Air melt High Alloy & High Precision Castings





### Technology – Rapidcast, Replicast, Investment Casting





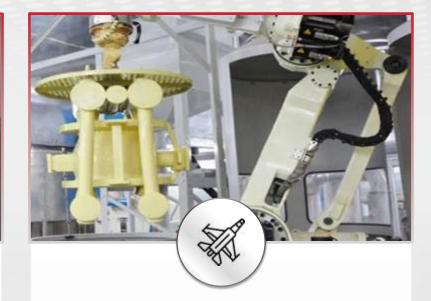
Quality – Value – Speed up to **5,000 kgs** single piece

7-Axis CNC machining robots to machine patterns





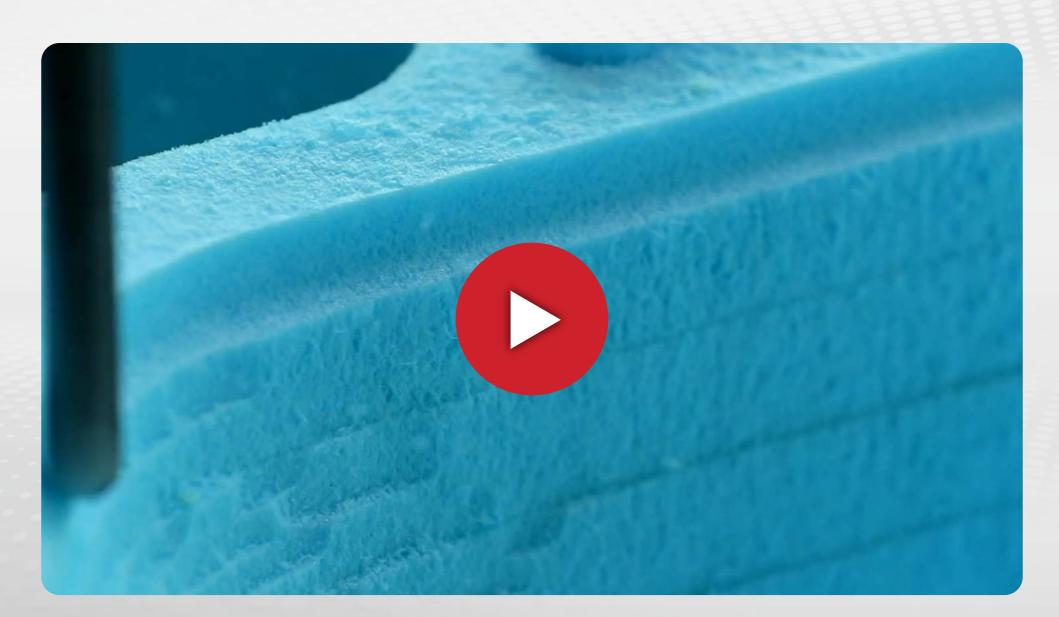
Near net shape casting solutions using ceramic shells with weight range up to **2,500 kg** 





Microstructure controlled castings (Single Crystals and Directionally Solidified) for Aeroengines







#### Application of Technology (Industrial)





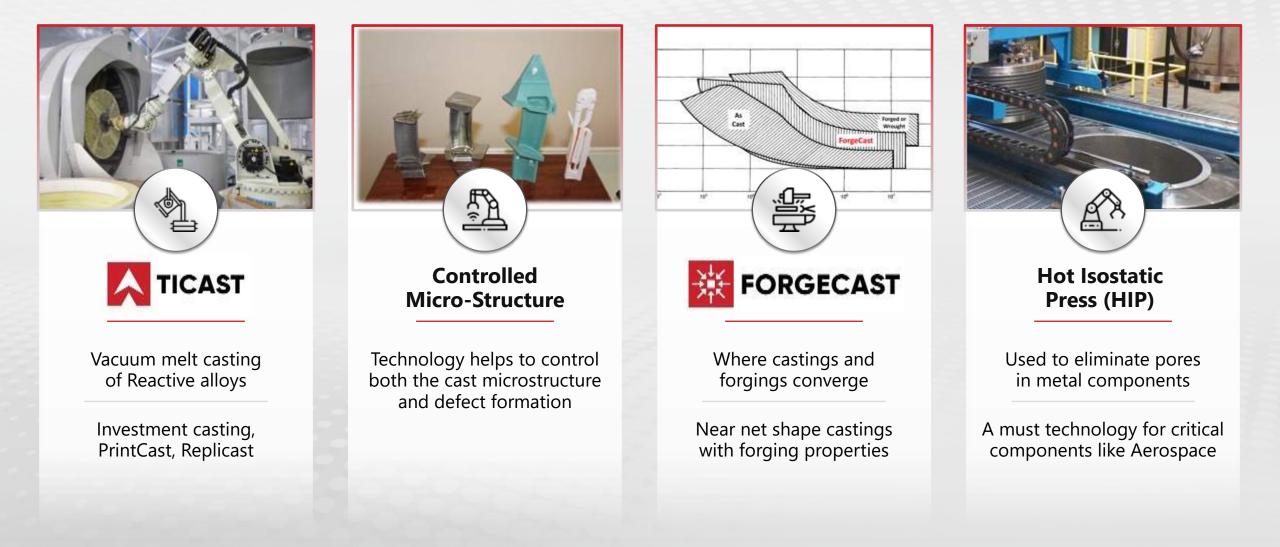


# AEROSPACE CASTINGS GROUP

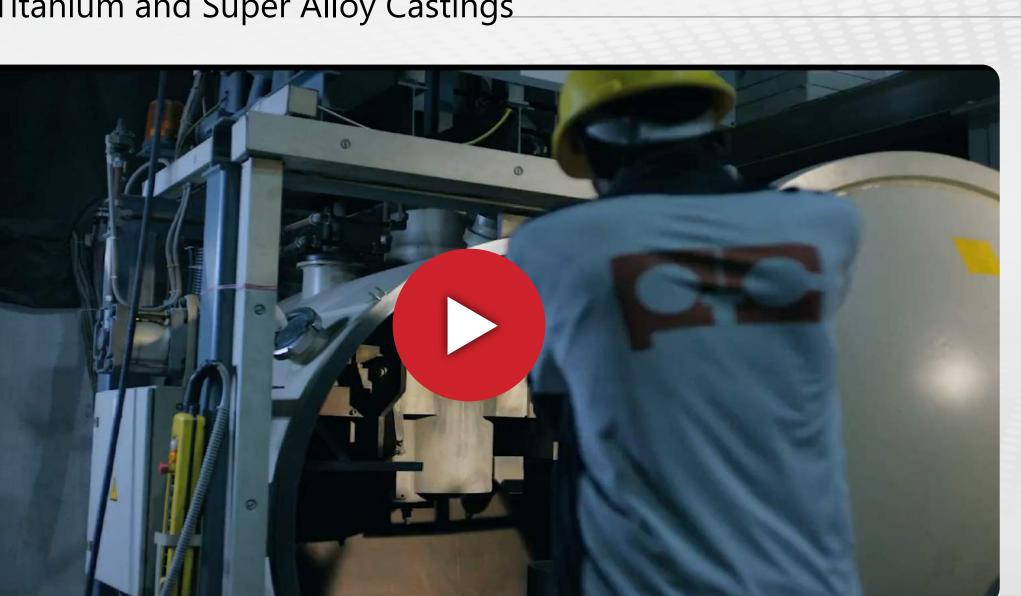
Titanium and Super Alloy Castings



## Technology – Ti Cast, Controlled Microstructure, ForgeCast

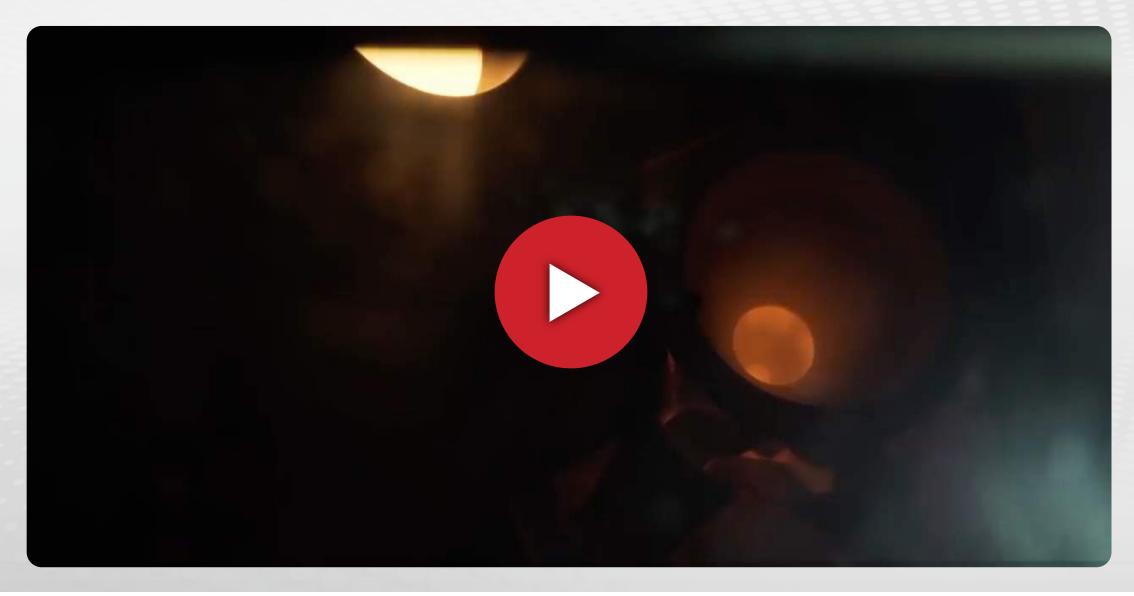


### **TiCast** - Titanium and Super Alloy Castings





### **Controlled Microstructure** Castings (EQ, DS, SX)



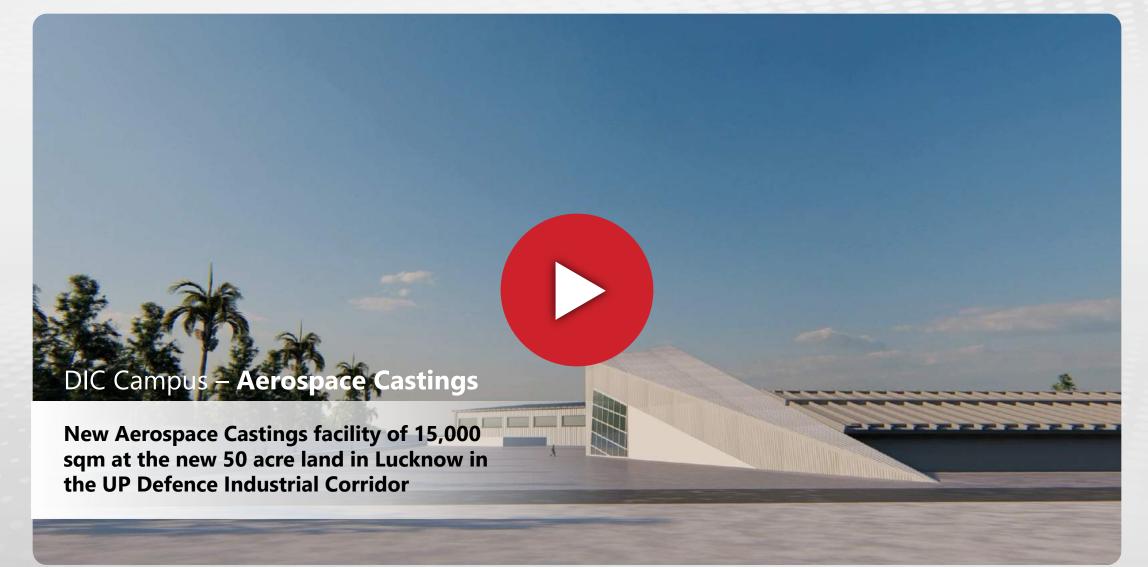


#### ForgeCast - Hot Isostatic Pressing (HIP)





#### New Aerospace Castings Facility

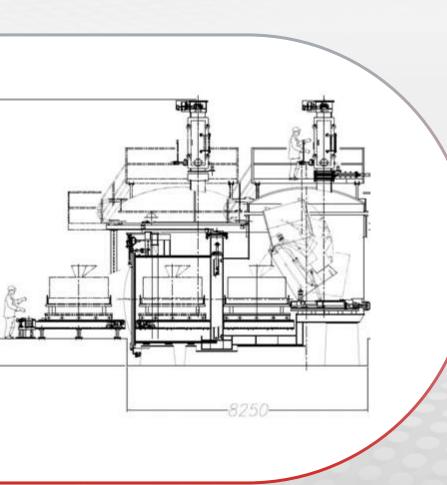




#### New Large Titanium Casting VAR



## New Large Super Alloy Casting VIM



KG		Ì♥,	
Total Liquid Metal	Annual Casting Capacity	Maximum Dimensions	Minimum wall thickness
1000 Kgs	300 Tonnes	1,800 mm	3 mm
69			
Furnace type	Alloys		
Vaccum Induction Melting (VIM)	Inconel 718, 706, 7 <sup>-</sup> 738 LC; M247 LC	13 LC,	



#### New Large Vacuum Heat Treatment Furnace





## AEROSPACE MATERIALS GROUP

UPDIC Campus – Aerospace Materials Mill

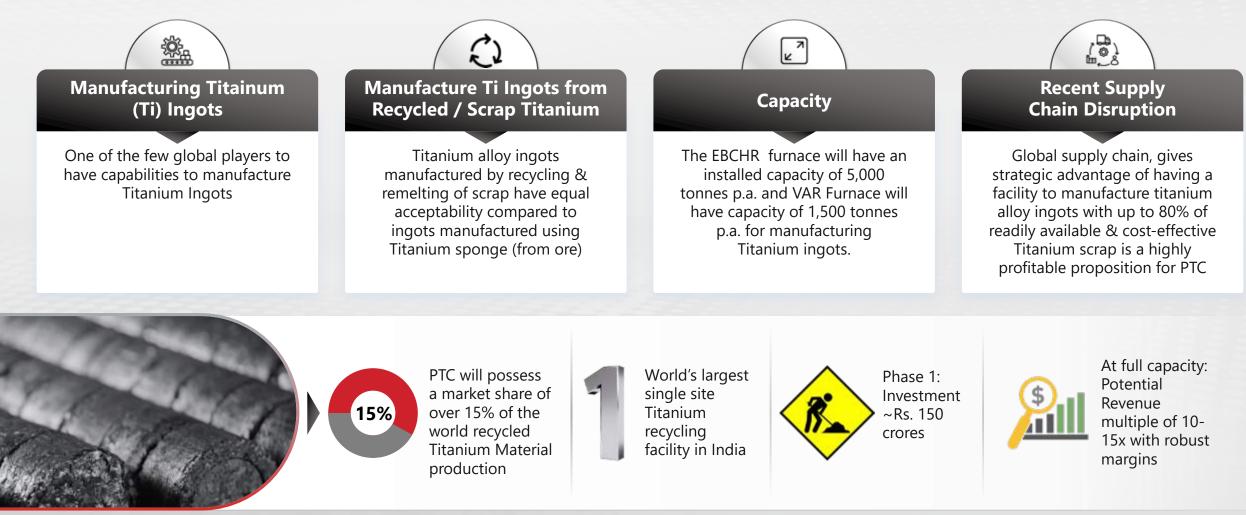
Titanium and Super Alloy Mill Ingots, Billets, Rods, Bars, Slabs, Plates





#### 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)"



### Titanium & Super Alloy Metal Manufacturing

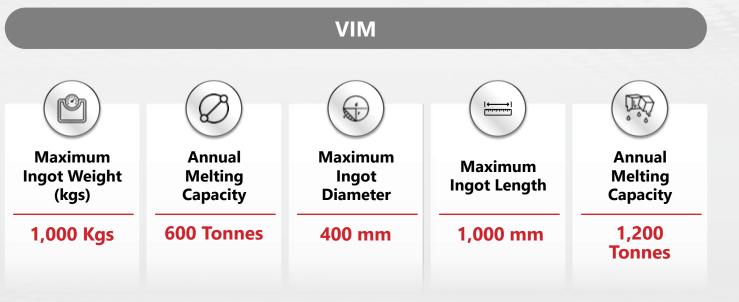




#### Technology – Titanium & Super Alloy material manufacturing



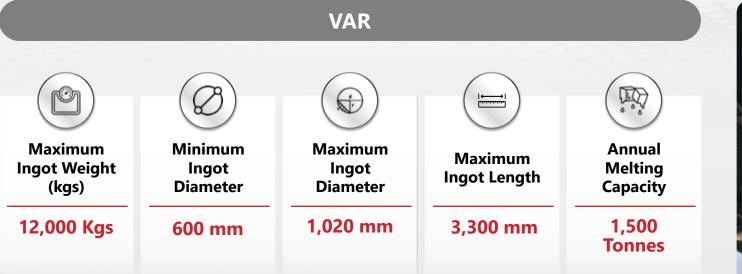
#### Masteralloy Vacuum Induction Melting Furnace (VIM)







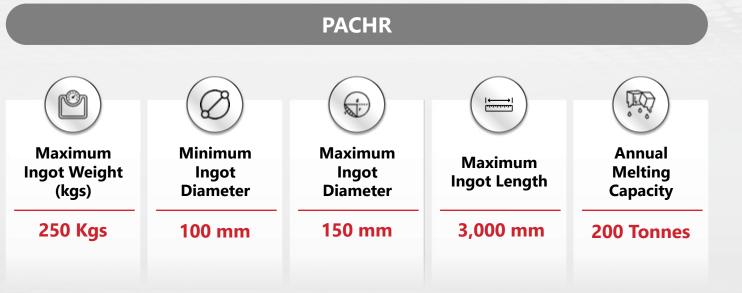
#### Vacuum Arc Remelting Furnace (VAR)







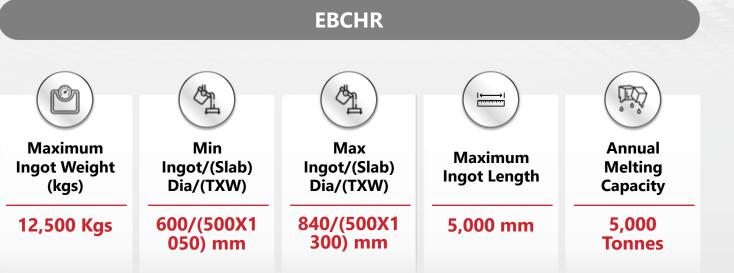
#### Plasma Arc Cold Hearth Refining Furnace (PACHR)







#### Electron Beam Cold Hearth Refining Furnace (EBCHR)







#### Metals Recycling



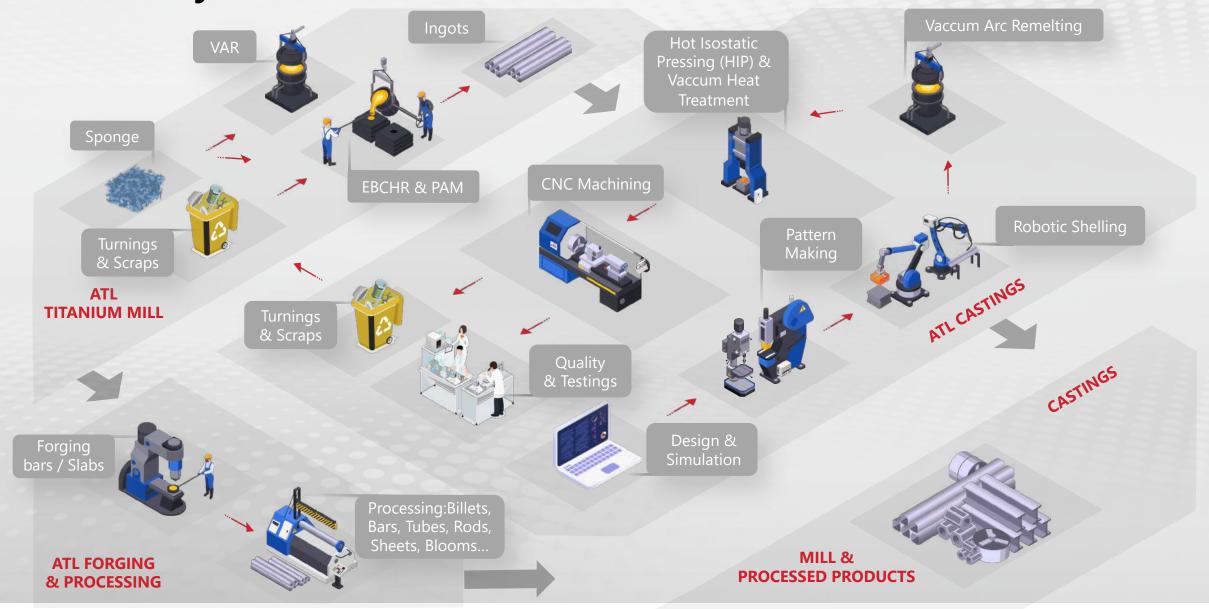


Shows that **GreenTitanium**<sup>®</sup> will avoid **26.4 tonnes** CO<sub>2</sub> per tonne of Titanium produced by recycling compared to traditional methods. The volume of emissions avoided is expected to increase in the future as operations reach their nominal production rate. Using this benchmark 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**





AEROLLOY TECHNOLOGIES

#### **Products**





#### Titanium and Super Alloy Wrought Products

Ingots, Billets, Rods, Bars, Slabs, Plates





# MACHINING & ASSEMBLY GROUP

CNC & 5-Axis Machining & Assembly



DC.

### **CNC** Machining







# **PTC** at a Glance

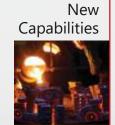






# THE ORIGINS **1960s**





First investment Costing Foundry in India **Satish Chandra Agrawal** Begun with a dream of creating a new capability in the country



**1970s** Indigening technology Import replacements for Import replacements for

First step towards self-relience



1965

**Established Plasma arc melting capability** For manufacture of metal components in such metallurgies that the country had never produced





Vacuum melting technology









Set up of in house research labs

#### 1988

**Bringing technology** Technical col abenions or enhancing capability further



#### 2007

#### Introducting automotion



First ever Robotic-Shell Coating system developed and installed

#### 1980s GOING GLOBAL

**At par with the world** PTC became capable of replacing import of industrial components



#### 1986

Winning Accolades Recognition by Departmen of science & Technology **2006** Award winning technologies-Rapidcast



Award the National Award for R&D by Government of India





#### THE LEAP 2010s Harnessing intrinsic capability



## 2014

#### **One of 16 Hidden Gems**



Identified as fast growing company with constant innovation

Time India Special Innovator of the Year



(\*) CII Industrial Innovation Awards
(\*) Rolls Royce Cost Leadership Award
(\*) Uttar Pradesh Gomti Gaurav Award



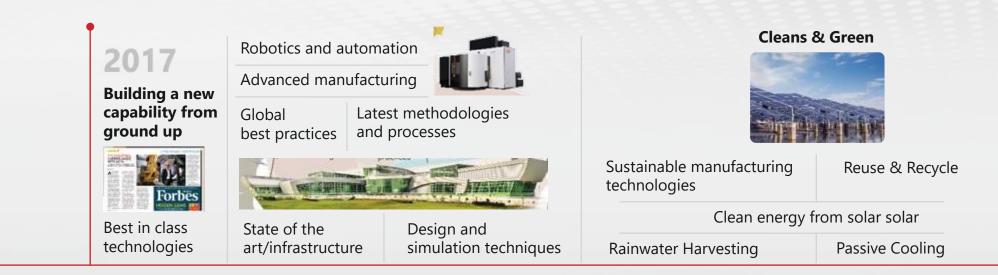
Over 6,000 single piece Near-Net-Shape castings

2011

DSIR approved project – for RapidCast Technology







#### 2015

Titanium Casting Capability FIRST time ever in India



Exotic & Hignor Alloy Powder Add five Menufacturing Exotic & Hignor Alloy Powder



## 2021

#### Profound and long lasting benefits for the nation



#### दृष्टानां दृष्टप्रयोजनानां दृष्टाभावे प्रयोगो ऽभ्युदयाय ॥ १०.२.८ ॥

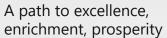
drstānām drstaprayojanānām drstābhāve prayogah 'bhyudayāya || 10.2.8 ||

The path to prosperity is by the way of 'Prayogah', experimentation and technological development - Vaisheshika Sutra

#### 2019 TOWARDS PARITY

Experimentation of development through automation and robotics









MAKE IN INDIA

# ne company

#### It's the proficient team which are the strong pillar of 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 Head Technology & Innovation

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



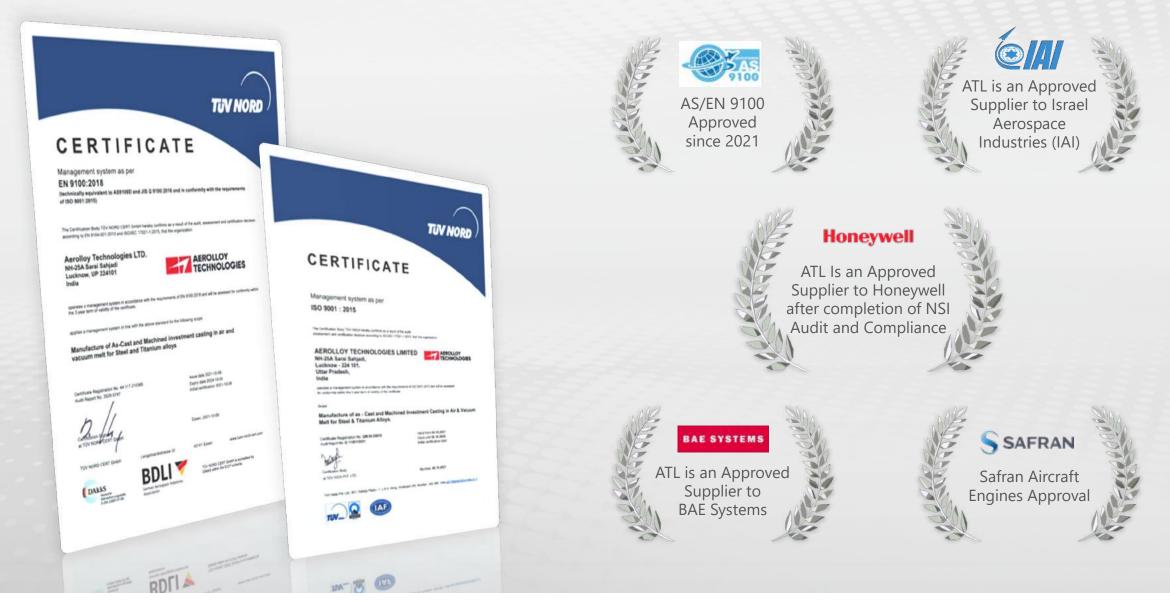
**Stephane Bras** Head of Sales - Europe

Master degree in international Sales Industry Experience of 20+ years Responsible for developing the International Sales of the group, and to manage development projects.



#### Certification



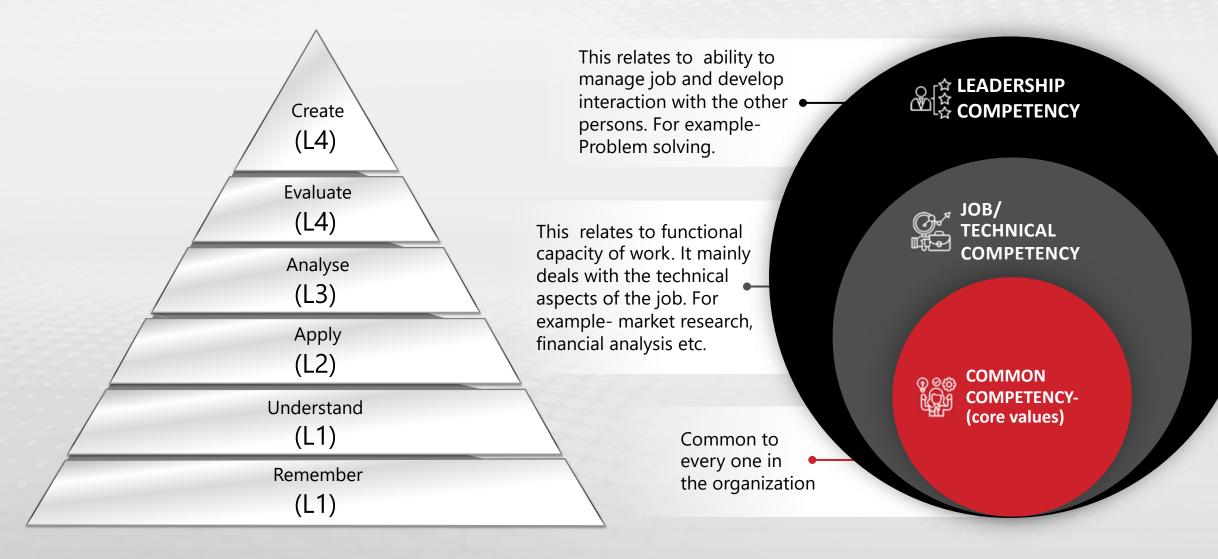


#### Our Core Values



## Our focus on Human Resource Development

Training and Competency Development Framework.



#### 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



#### FUTURE



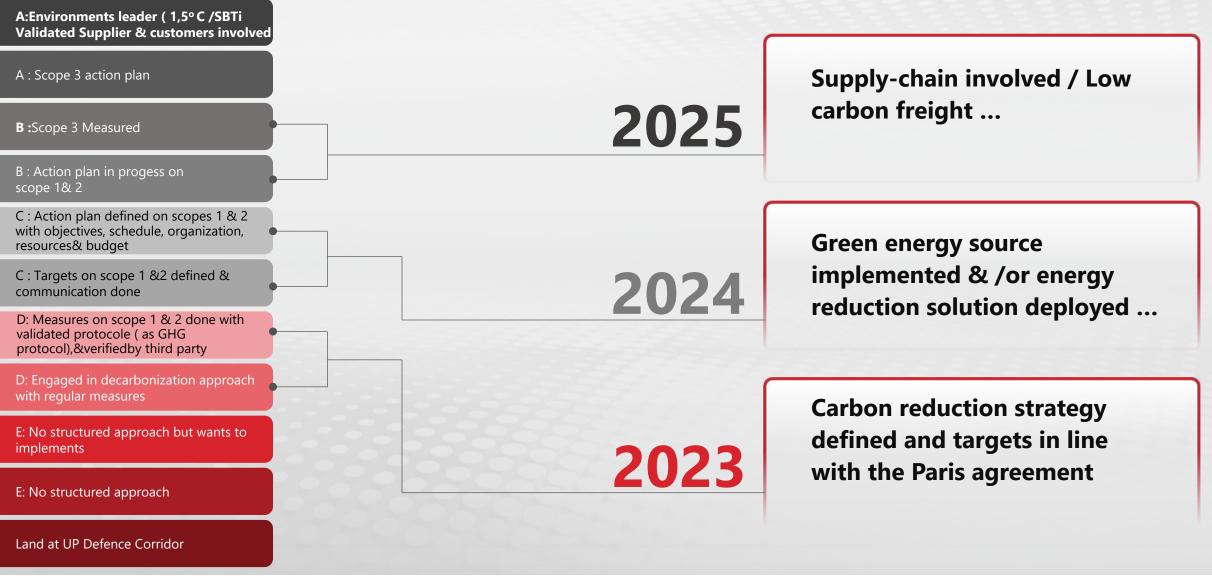
10-12MW Solar Plant (Aerolloy Metals)

>50% Energy consumption from renewable sources



#### Roadmap for Carbon Footprint Reduction







#### Our efforts are getting recognised

PO Handover by SAFRAN AIRCRAFT ENGINES at #AeroIndia 2023

MoU Signing with

at #AeroIndia 2023

Raksha Mantri's

Award at #DefExpo2022

DASSAULT AVIATION

**AEROLLOY /** 

at Paris Air

Show 2023

**PTC** will exhibit



ATH SIN

54<sup>th</sup> INTERNATIONAL | 54<sup>e</sup> SALON INTERNATIONAL

JUNE 19-25, 2023 19-25, JUIN 2023

DE L'AÉRONAUTIQUE & DE L'ESPACE

PARIS LE BOURGET

PARIS AIR SHOW

LE BOURGET

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

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



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producing the medial 2022, and them is a side to produce complexity of all must are to produce the strive of the major structure (Saldin, Nave a Trivers SI-value) instead of the section of the sectio

direction RAT Dowlard

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

**Opens First Pvt** Manufacturing Unit In Corridor



with Nitigh said on Astanday that tors private comparises will star intervention in London and Dirice Pro-riests, which will reade a much in the proces and aerospace sector matter on whill interior in UP and the strength there will provide all support. This answittenant will stance that people st 22 and Bairy let hand their book After Insugarating the first artpeople of sepalations," Shah on an defense manufactor metacheriste lingh sold, "More companyies will any of power taxasia's pidatain to when most in Cachings and LT and the of in the same of developing a

mus will make a mark in defence all accurately worth anomaliants ing "Heatscianded CM Sign Adry-'I arge industry to make the lo of contrastive a parties in their As the output of a law out in The Davis more of how compared programmers," he said





AEROLLOY TECHNOLOGIES

Mantri's Award For

Raksha Srijan Ratn

(2021-2022)

Awarded to

M/s PTC Industries Ltd, Lucknow

Indigenisation / Import substitution

Under Category - Medium Scale Enterprise

a with a

ri Reinath Singh

- and - and -

## Aerolloy Inauguration Nov 2021





# **Financials**







Particulars INR Cr	Q4FY23	Q4FY22	YoY	Q3FY23	QoQ	FY23	FY22	ΥοΥ
income Total Income	62.7	52.7	19.0%	60.9	2.9%	226.7	185.2	22.4%
Sebitda	18.9	13.8	36.8%	16.1	17.4%	66.1	48.4	36.6%
i EBITDA Margin%	30.2%	26.3%		26.5%		<b>29.2</b> %	26.1%	
📸 Profit Before Tax	11.4	6.1	88.7%	7.9	45.7%	33.7	18.6	81.1%
i Profit After Tax	9.2	4.6	99.1%	6.1	51.0%	25.8	12.8	101.5%
💣 PAT Margin%	14.7%	8.8%		10.0%		11.4%	6.9%	



## Key Financial Highlights (FY23)

Total Income		EBITI	EBITDA			argin (%)
Consolidated	CAGR Growth %	Consolidated	CAGR Growth %		Consolidated	
₹ 227 Cr	9.9%	₹ 66 Cr	23.6%		18.2 %	29.2%
Increased by 22% FY22	CAGR (FY19-FY23)	Increased by 37% FY22	CAGR (FY19-FY23)		In FY19	In FY23
Profit Af	ter Tax	Property, Plant	& Equipment		Netwo	orth
Consolidated	CAGR Growth %	Consolidated	CAGR Growth %		Consolidated	CAGR Growth %
₹ 26 Cr	24.0%	₹ 226 Cr	15.0%		₹ 307 Cr	21.6%

PTC INDUSTRIES

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CAGR (FY19-FY23)

As on March 2023

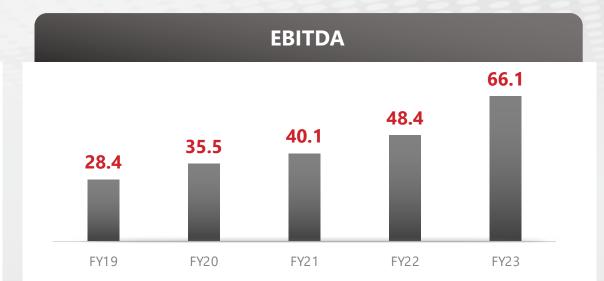
As on March 2023

CAGR (FY19-FY23)



### Key Financial Highlights





PAT 25.8 10.9 10.5 4.4 FY19 FY20 FY21 FY22 FY25

#### **EBITDA Margin %**

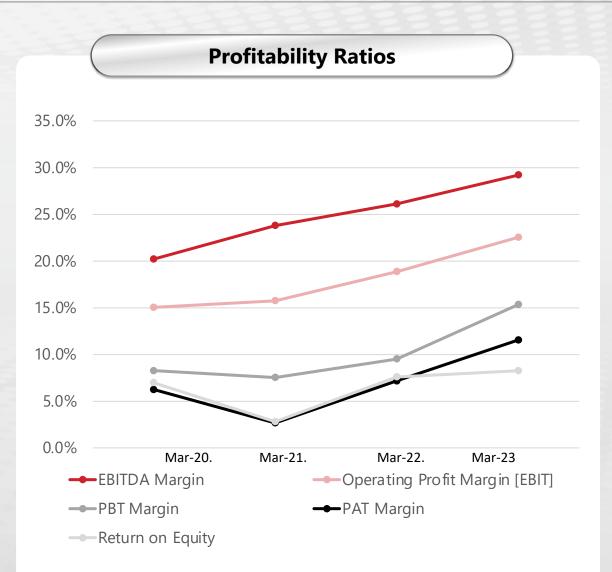


### ACCOUNTING RATIOS

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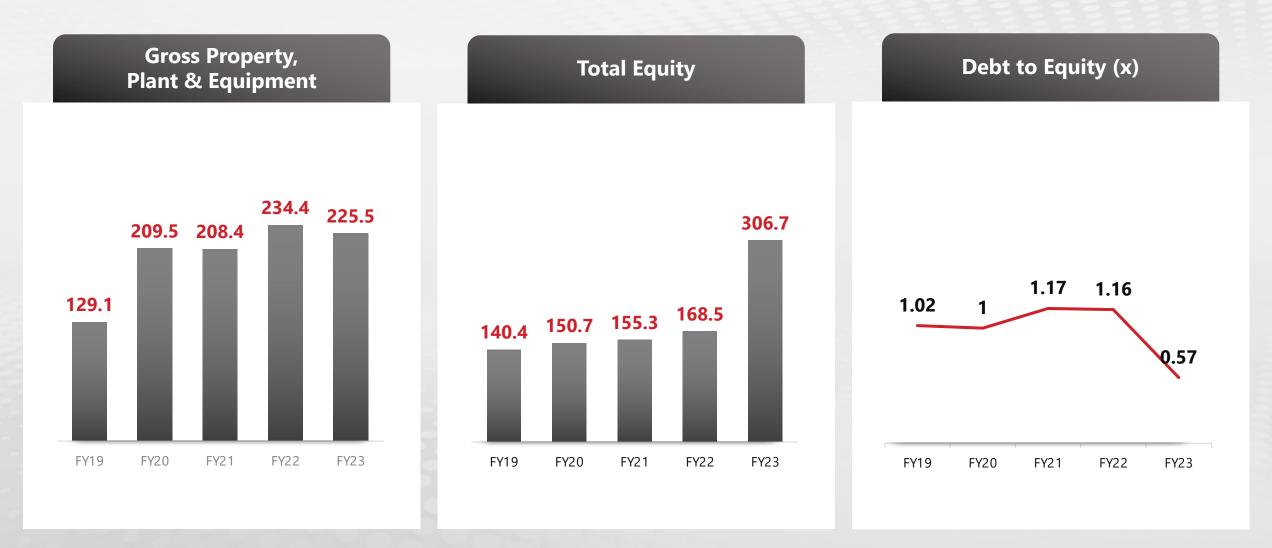
Particulars	As at March 31, 2020	As at March 31, 2021	As at March 31, 2022	As at March 31, 2023
<b>Profitability Ratios</b>				
EBITDA Margin	20.2%	23.8%	26.1%	29.2%
Operating Profit Margin [EBIT]	15.04%	15.75%	18.86%	22.55%
PBT Margin	8.27%	7.53%	9.51%	15.35%
PAT Margin	6.25%	2.67%*	7.16%	11.56%
Return on Equity	6.97%	2.80%*	7.60%	8.26%





### Key Financial Highlights





In Rs. Cr

PC INDUSTRIES AEROLLOY TECHNOLOGIES

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### ACCOUNTING RATIOS

	Particulars)	As at March 31, 2020	As at March 31, 2021	As at March 31, 2022	As at March 31, 2023
	Leverage Ratios				
	Long Term Debt / Operating EBITDA	3.04	2.69	2.22	1.64
8  >	Total Bank Loan / Operating EBITDA	5.32	4.75	4.66	3.01
¢	Total Debt to Equity Ratio	1.00	1.07	1.16	0.58
Ľ	Liquidity Ratios				
ø	Current Ratio	1.07	1.12	1.11	1.60
	Interest Service Coverage Ratio (ISCR)	2.22	1.92	2.23	3.13







### **REALISATION** OVER THE YEARS

Particulars	PTC Industries Limited						
	Unit	FY18	FY19	FY20	FY21	FY22	FY23
Total Revenue*	Rs Crs	104.2	155.5	175.3	168.6	185.8	226.7
EBITDA	Rs Crs	18.3	28.4	35.5	40.1	44.1	58.6
EBITDA/kg	Rs/kg	149	168	204	268	281	380
Revenue per kg	Rs/kg	849	922	1005	1126	1183	1480

\* Includes revenue from sale of products, pattern development, tooling, waste and scraps, export incentives, income from power generation, gain on foreign exchange fluctuation (net) and other income

The uptrend in realizations is likely to continue as it focuses on higher sales of high value-added product segments Company has in-house pricing mechanism which helps to determine price of the finished products

0/1

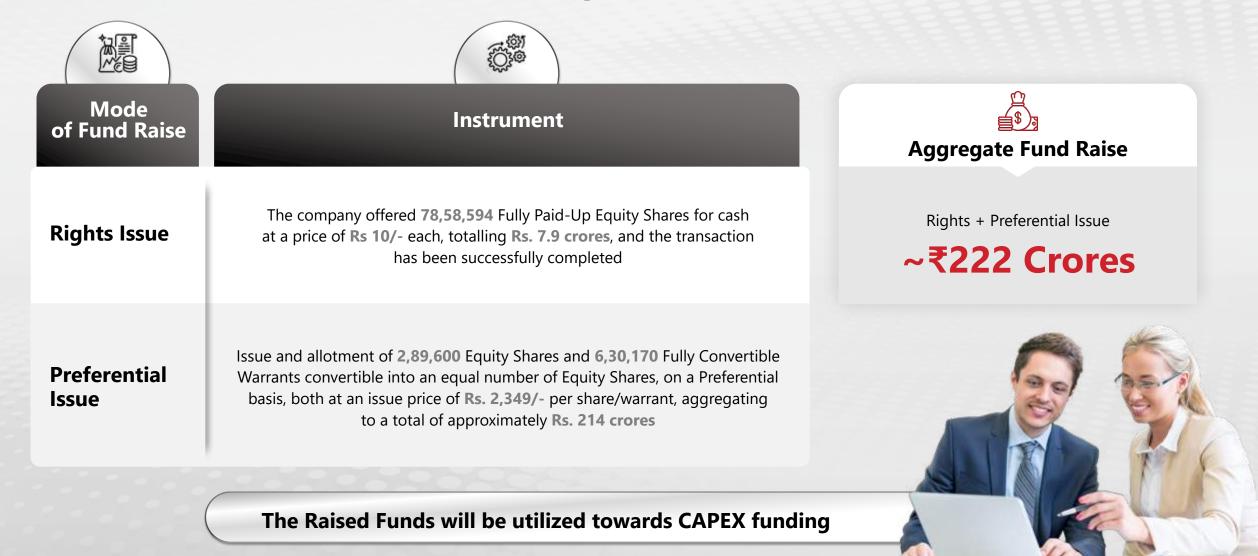
Regular and repeat parts (supplied for many years) made with dies using RepliCast or Investment casting technologies

For prototyping or small quantities - made with virtual tooling using RapidCast/PrintCast



#### Successful Fund Raise to Fund the Expansion







# PASSION & COLLABORATION



#### **PTC Industries Limited**

Smita Agarwal, CFO smita@ptcil.com

#### **Ernst & Young LLP**

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