



where **Passion**  
meets **Performance**

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Date : 26<sup>th</sup> May ,2021

SEC/MAY/SE/N&B/2021

<b>National Stock Exchange of India Limited,</b> "Exchange Plaza" 5 <sup>th</sup> Floor, Plot No. C-1, G Block, Bandra Kurla Complex, Bandra (East), Mumbai – 400051  <b>NSE Scrip Code - PRECAM</b>	<b>BSE Limited,</b> Phiroze Jeejeebhoy Towers, Dalal Street, Mumbai - 400001  <b>BSE Scrip Code - 539636</b>
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**Subject: -Submission of Investors Presentation under Regulation 30(1) of SEBI(LODR) Regulations, 2015**

Dear Sir/Madam,

Pursuant to Clause 15 of Schedule III, Part A, Para A read with Regulation 30 of Securities and Exchange Board of India (Listing Obligations and Disclosure Requirements), Regulations, 2015, we would like to submit the Investor Presentation for the Quarter ended and Year ended 31<sup>st</sup> March ,2021

Enclosed herewith please find the Investor Presentation for the Quarter ended and Year ended 31<sup>st</sup> March ,2021.

Kindly take the above information on record.

**Precision Camshafts Limited**

MAYURI  
ISHAN  
KULKARNI

Digitally signed by  
MAYURI ISHAN  
KULKARNI  
Date: 2021.05.26  
10:28:29 +05'30'

**Mayuri I. Kulkarni**  
**Company Secretary and Compliance Officer**

**Precision Camshafts Limited**

Solapur : D5 MIDC, Chincholi, Solapur, India – 413255

Solapur : E102 MIDC, Akkalkot Road, Solapur, India – 413006

Pune : 501/502, Kanchanban "B", Sunit Capital, Senapati Bapat Rd, Pune, India - 411016



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Investor deck – FY20-21



One stop solution for niche machined components including Camshafts, Balancer Shafts and Injectors

Publicly listed company with strong financial position

Strong & experienced management team and board with long term strategic vision



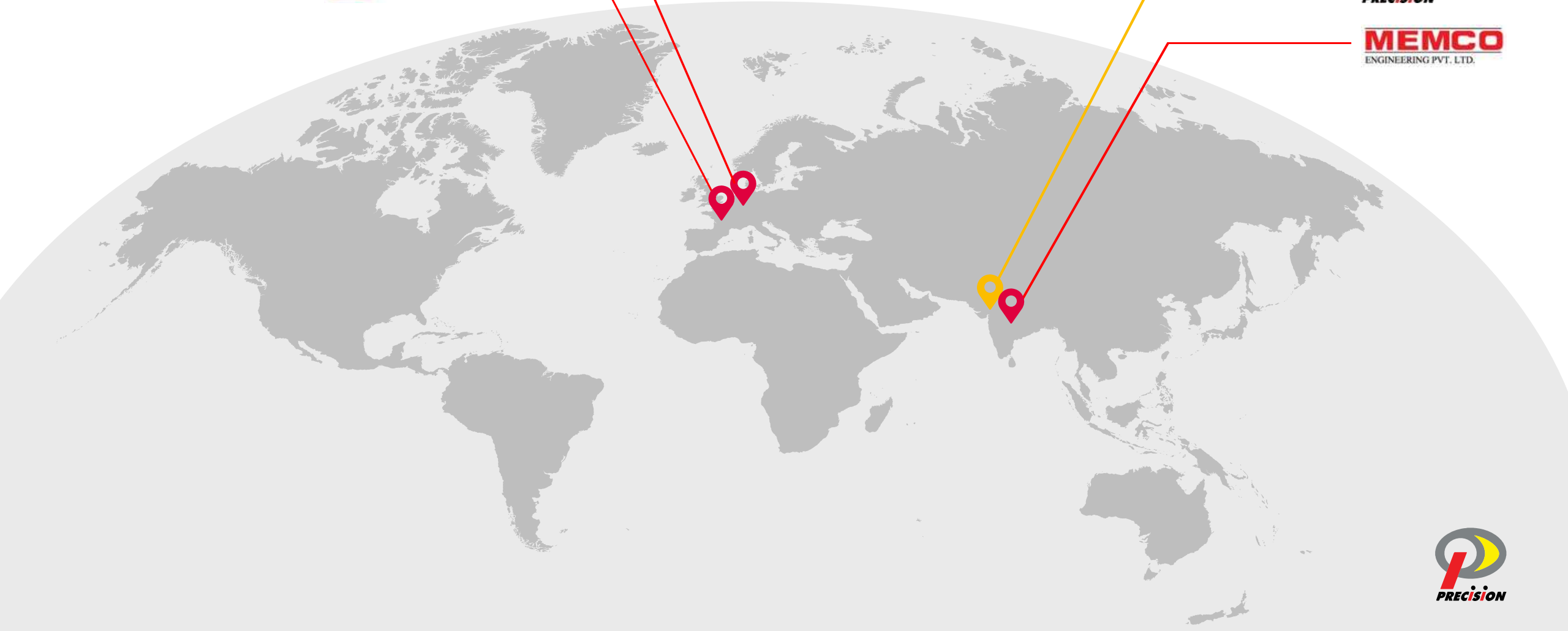
Complete integrated electric drivelines and power solutions for heavy equipment

Global benchmark in quality with state of the art manufacturing footprint

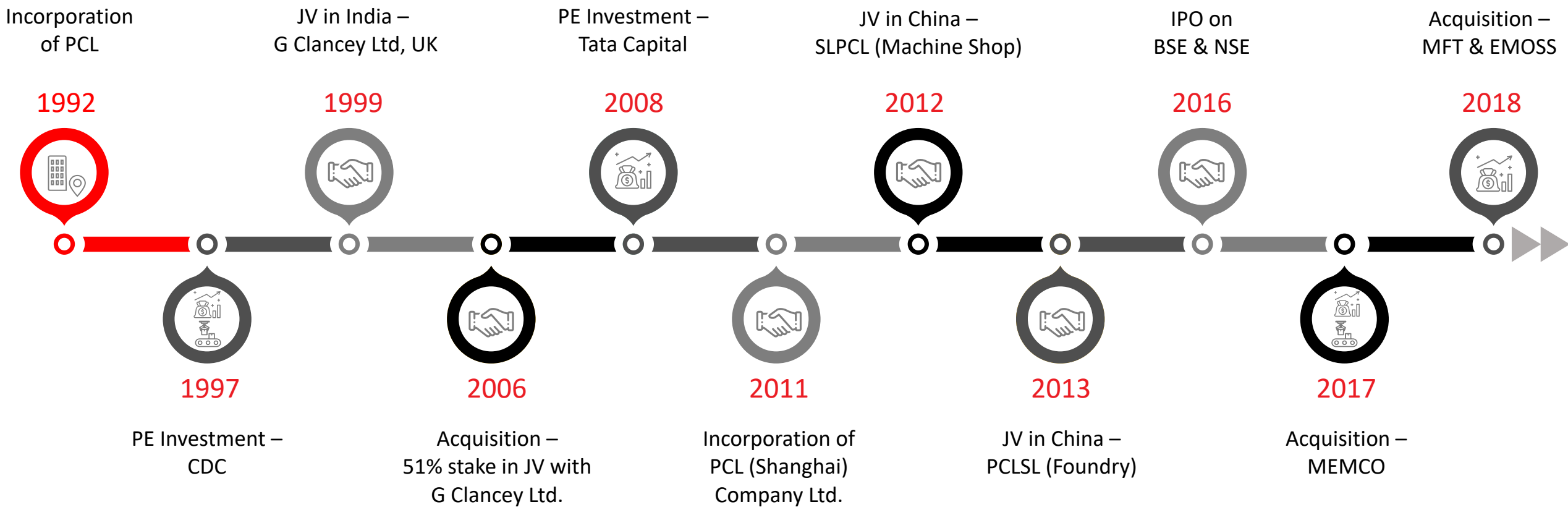
Leading supplier partner to marquee global OEMs

Global manufacturing footprint

# Precision Group – Global Footprint



# Precision Group – Timeline





# Customer Footprint – Automotive

Consistently  
surpassed  
customer  
quality  
expectations  
and  
benchmarks



Common

Common



E-Mobility



ferrovial



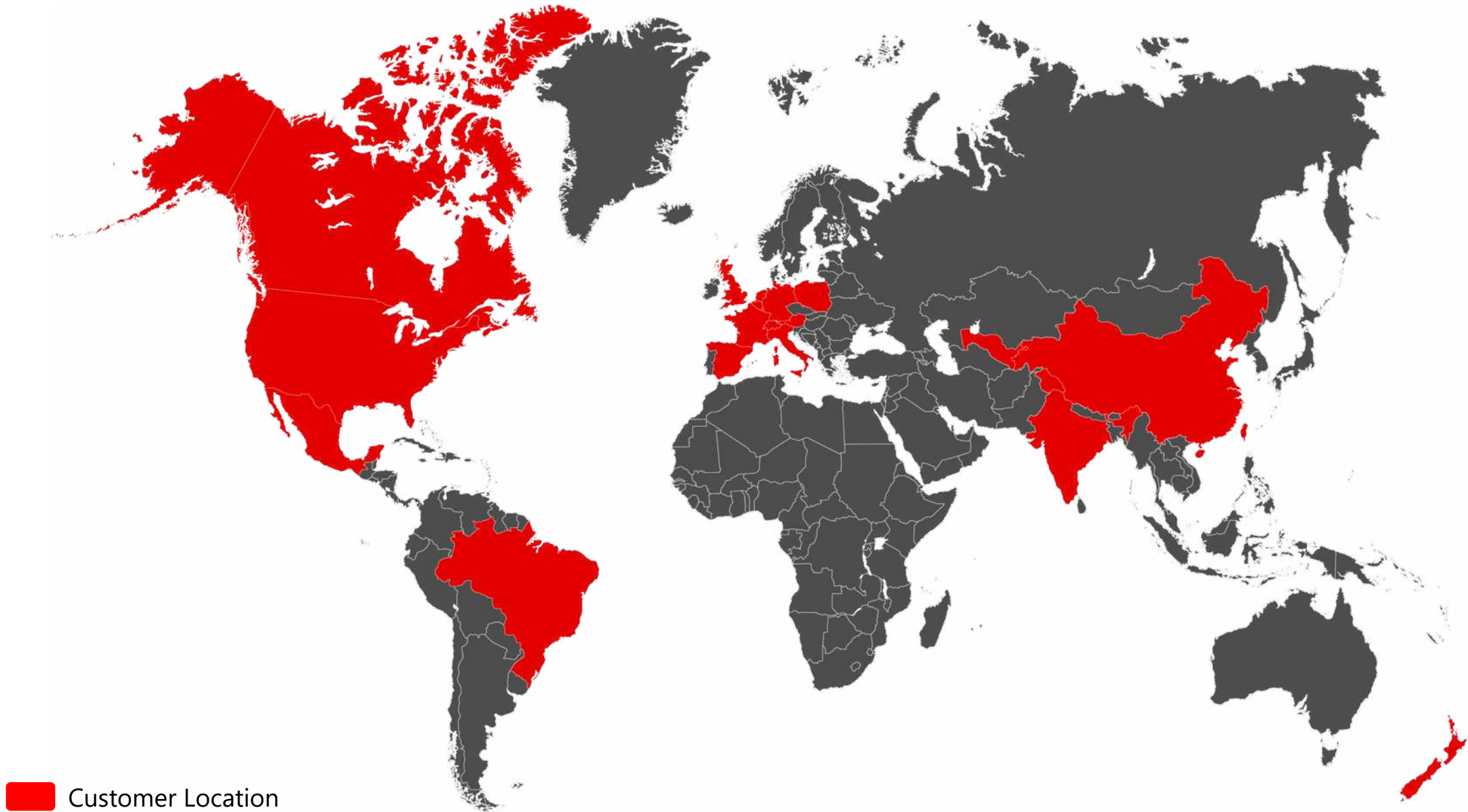
E/NRIDE Geesinknorba Group



PETER APPEL  
Transport



# Global Customer Footprint







PCL Campus spread over 45 acres  
+ 25 acres at 2 km from current  
site











# MEMCO – Machine Shop



**MEMCO**  
ENGINEERING PVT. LTD.





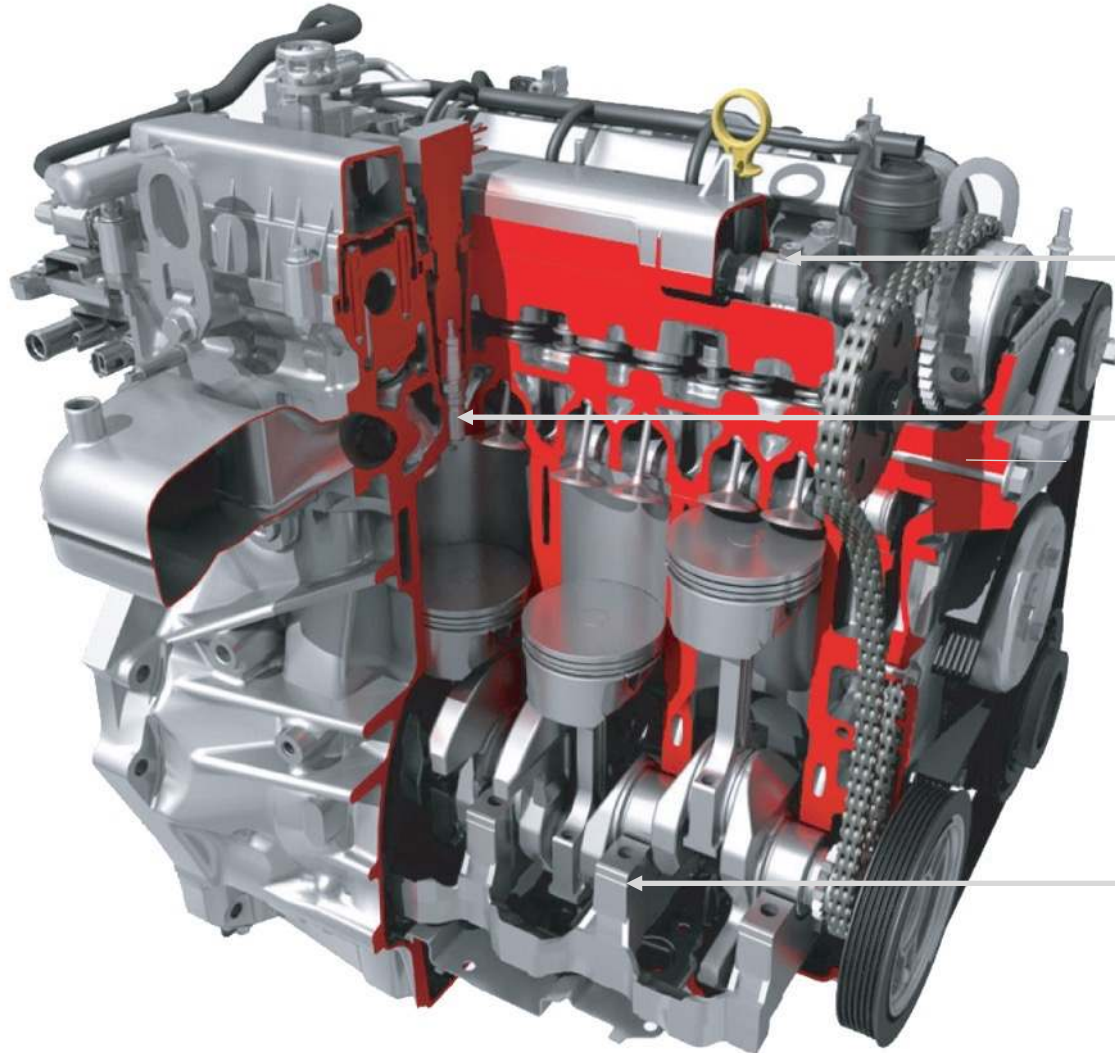












Internal Combustion Engine

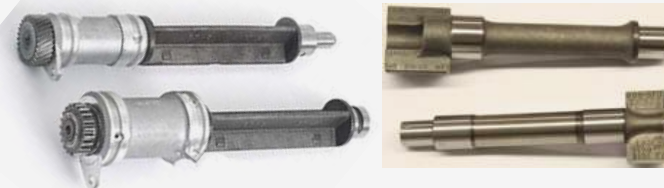
Camshafts



Fuel Injector Components



Balancer Shafts





# Product Portfolio – PCL



- Camshafts - 2/3/4 cylinder, V6/V8 engine
- 250 - 500 mm length, 1.3 kg – 2.4 kg weight
- Solid, hollow and profiled hollow core



Chilled Cast Iron Camshaft – 4 cylinder



Induction Hardened Ductile Iron Camshaft



Chilled Cast Iron Camshaft – Variable Valve Lift



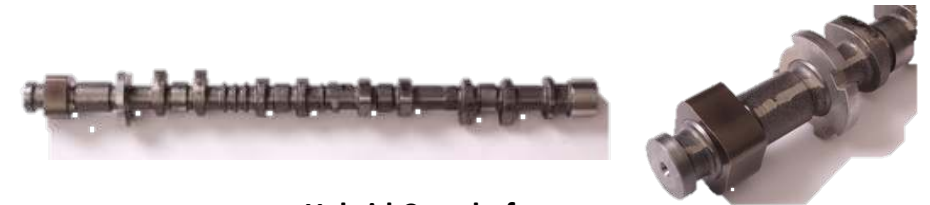
Hybrid Camshaft – Chilled Casting + Steel Fuel Lobe



Assembled Camshaft



Solid, hollow and profiled hollow core (using glass/sand core)  
Special profiled hollow and Variable valve-lift camshafts



**Hybrid Camshafts**

CCI Camshaft with 100Cr6 pump lobe and sintered trigger wheel



Assembled Camshafts



# Product Portfolio – MEMCO



- Fuel Injection Components for Conventional and CRDi Diesel Engines
- Stainless Steel Components for Instrumentation
- Brake Components



Nozzle Holder Body



Nozzle Retaining Nut



Stainless Steel Components  
for Instrumentation /  
Equipment



Brake Pistons







## Balancer Shafts & Assemblies

- Fully machined, hardened and balanced (vertical and horizontal)
- Forged, ductile iron



## Prismatic Components

- Various Powertrain, Brake and Chassis components
- Machining of all casting materials (GG, GGG, Aluminium)

# Product Portfolio – EMOSS



E- Light



72 kWh



4.2 tons



150 km



E- Truck

80-240 kWh

7.5 – 27 tons

100 – 350 km



E- Semi

120-200 kWh  
+ range extender

Max. 50 tons

100 km  
extended range 500+



## Digital Development

Integrated cockpit for all EMOSS products  
Real-time online tracking for Power management  
& Data analysis





where **Passion**  
meets **Performance**

## EMOSS : Accelerating E-mobility

ADVERTORIAL



The **Precision Group** is a global engineering company employing over 2500 people and supplying camshafts, injector components, brake parts, balancer shafts, prismatic components and complete electric drive lines to all leading OEM's around the globe with consolidated revenues of over \$100 million (INR 720 Crores). Precision Camshafts Limited has acquired 100% Equity Shares of EMOSS Mobile Systems B.V. Netherlands ("Emoss") as of 24<sup>th</sup> July 2020 through its fully owned subsidiary PCL (International) Holding B.V.



Emoss is a one-of-a-kind business that designs, develops, produces and supplies complete electric powertrains for trucks, buses, military vehicles and heavy equipment. The Emoss business model includes conversion of diesel trucks into ready to use electric trucks within a short span of 90 days. The company also manufactures "ready to assemble modular kits" which are assembled onto the chassis by the end customer. Both the equipment and the software are extensively tested before they hit the road, resulting in reliable and durable products.

Emoss provides an end to end solution to its customers which includes research and development, engineering, production, testing, certification, delivery and post-sale service. The Company also provides real time power management and tracking via an integrated cockpit setup.

With over 10 years of experience in the electric drive line space, Emoss is leading the industry and is ready for rapid changes in electrical mobility and the interrelated growth in demand. Located in The Netherlands, with the Port of Rotterdam nearby, Emoss also has a strategic position to ship their products worldwide.

### New Development :

EMOSS is focussed on delivering "modular kits" to its key customers in Europe, North America and New Zealand. The company has installed high tech testing equipment and assembly machines in the workshop to improve delivery metrics, quality and reliability. EMOSS has also developed a proprietary 'range extended' version of its electric power train for heavy trailer application allowing the vehicle to drive over 500 km on a single charge. Amongst many other firsts, the company has developed a fully electric drive line for the world's first fully electric fire engine. EMOSS has also developed the electric drive line for a leading developer of fully autonomous self-driving trucks. In addition, the technical team has developed a new battery pack based on aviation and defence specifications with a major supplier.

The trucks powered with Electric Drive lines can carry a maximum payload of 50 tons with a mobility of up to 350 km which may be extended beyond 500 km with long range extenders developed by EMOSS.







**India Developments** : PCL has created a fully dedicated EV team in India to develop a localised solution for electric buses and cargo vehicles. The company would bring together the best of European technology and Indian localisation to meet the technical and commercial needs of the Indian customer. The initial project work has been done in close cooperation with the Automotive Research Association of India (ARAI).

**The company would be launching a 'first of a kind' fully electric mid-size bus for the Indian market.**

The vehicle would outperform IC engine driven technical specs while providing a range of ~150+ km on a single charge. PCL EV Team has achieved over 50% localisation in the very first vehicle. The company is now in discussion with several third party logistics companies, fleet owners, large corporates, state transport authorities, etc for electrifying their fleet of buses and trucks.

The EMOSS retrofit model in India offers operating and maintenance cost savings of over 60% allowing the customer to recover initial costs within 5 years.



## Benefits of Retrofitting

Retrofitting is replacing the combustion power train in a vehicle by an electric drive line. This method is being used extensively in Europe to convert diesel trucks and buses in to zero emission CVs and has helped reduce carbon emissions within big cities while also reducing congestion. From the customer's point of view, retrofitting reduces the running cost of vehicle, prolongs the life of the vehicle and gives the pride of taking a step towards sustainability.

From the society's point of view, electric/hybrid vehicles are good for public health and cause less harm to global climate. From the government's point of view, retrofitting reduces consumption of crude oil, vehicular tail-pipe emissions and expenditure on oil imports.

Retrofitted EVs can be the first entrants to this nascent market which will help build the ecosystem for charging, localized components and batteries, service infrastructure and usage pattern understanding among others.

*"The electric vehicle market has tremendous growth potential in the commercial vehicle and niche services space. As we approach big changes in transport and mobility, we - as experts on electrical drivetrain technology for heavy equipment - are faced with large opportunities as EMOSS is at the forefront in this segment. Our company has delivered over 600 vehicles up to date with a total of 100+ million miles driven on the roads.*

*Opting for electric transport is opting for sustainability: CO2-neutral driving lowers environmental impact because it eliminates emissions of particulate matter and nitrogen oxides. EMOSS makes zero-emission transport of heavy vehicles without noise, odor or pollution a reality today.*

*The PCL EV team has localized considerable part of the supply chain in India and we will be rolling off our first retrofitted vehicle in this year. The localization will obviously have a positive synergistic impact on the EMOSS BV operations in Europe.*

*EMOSS, which is now 100% owned by PCL, is poised to grow exponentially with a strong financial partner in PCL and its experience in operations and manufacturing for over 30 years. We look forward to exciting times in the coming years!"*



**Mr. Karan Shah**  
Whole-time Director at PCL  
Director at EMOSS BV

## First electric vehicle charger in Solapur installed at 'Precision' campus!

To carry out testing and charging of electric vehicles developed in India, Precision has made available the first charging point in Solapur capable of charging electric vehicles. The EV charger has been installed at Precision's manufacturing plant at Chincholi MIDC.

EO Charging, a company based in the United Kingdom, has developed a three-phase, 22 KW charger for this purpose. The AC electric vehicle charger installed in the Precision has a charging capacity of 22 KW per hour. The charger has been certified 'IP 65' safety range. It also has a system to protect the charger from dust, wool, wind and rain.

PCL can provide a wide range of AC as well as DC Fast Charging solutions to its customers as it has identified strong technical partners in India.



**EMOSS Team (left to right)** : Martijn Noordam (CTO), Bas Rottier (CSO), Peter Coenen (COO)

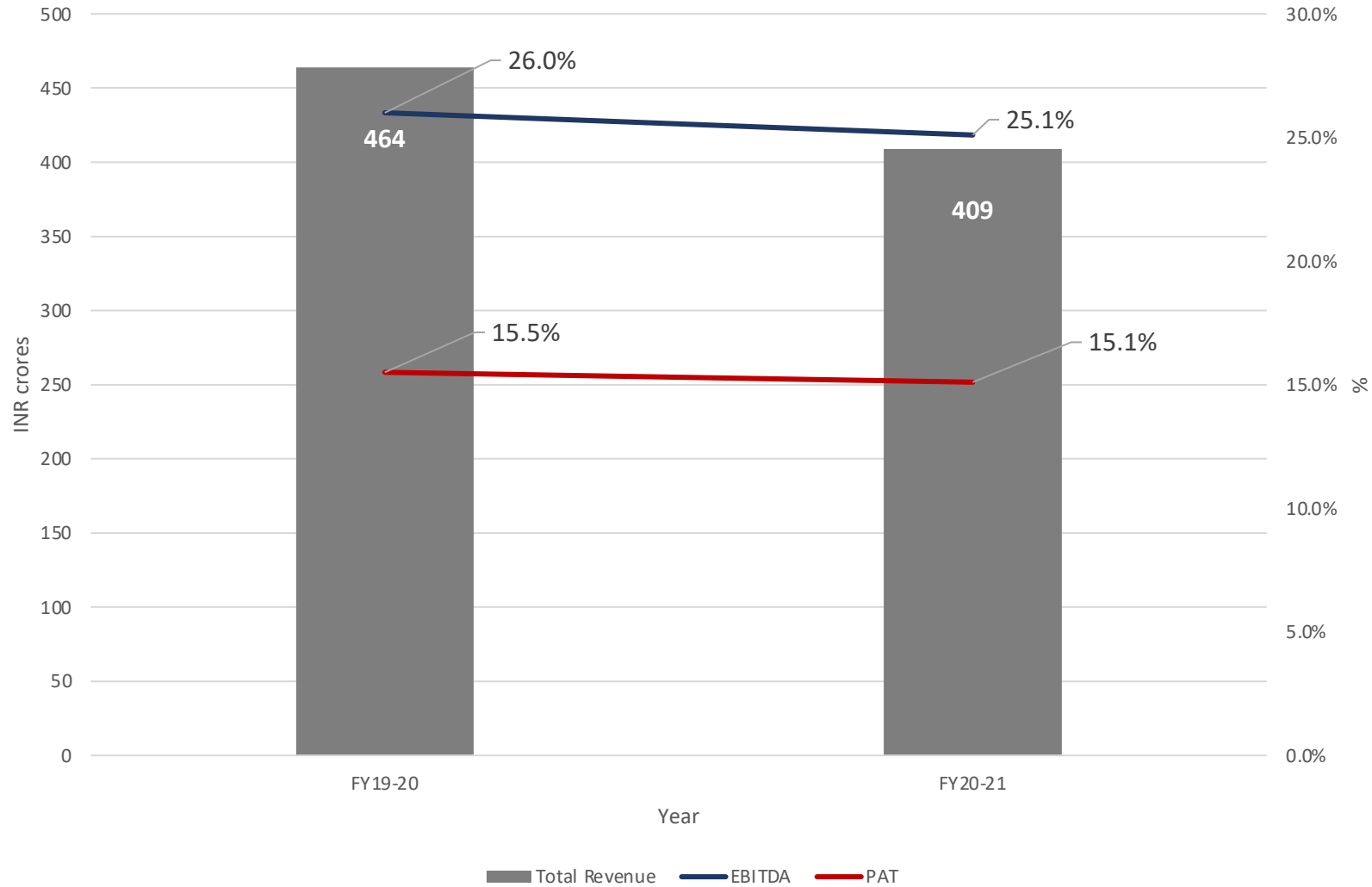


**E-Mobility Customers**



**PCL India EV Team (left to right)** : Bhagyashree Shinde, Pranav Mhaskar, Karan Shah, Sanket Hiremath, Salil Parulekar, Yash Vardhan

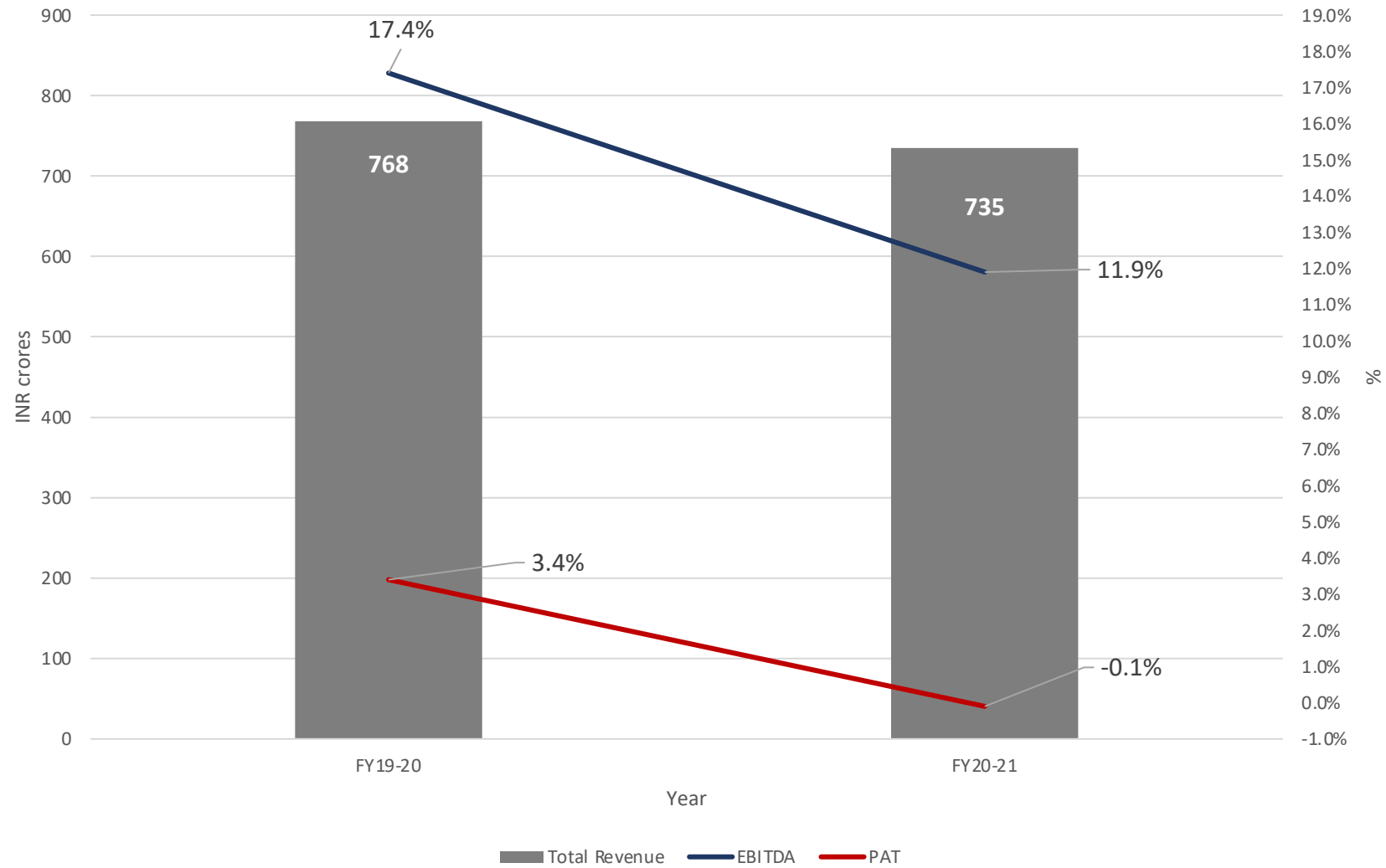
# Financial Performance - Standalone



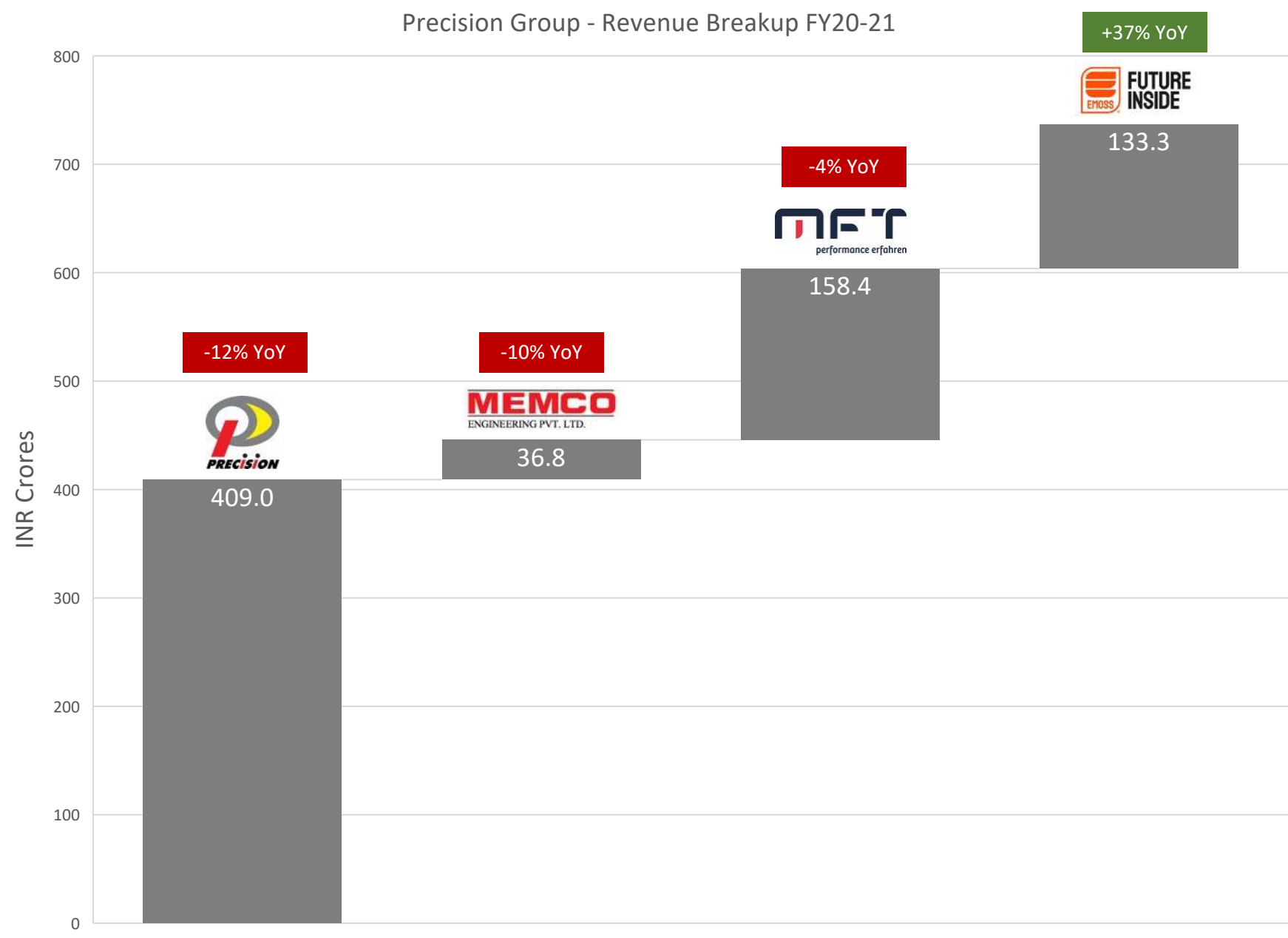
**Strong standalone performance with stable EBITDA and PAT margins**



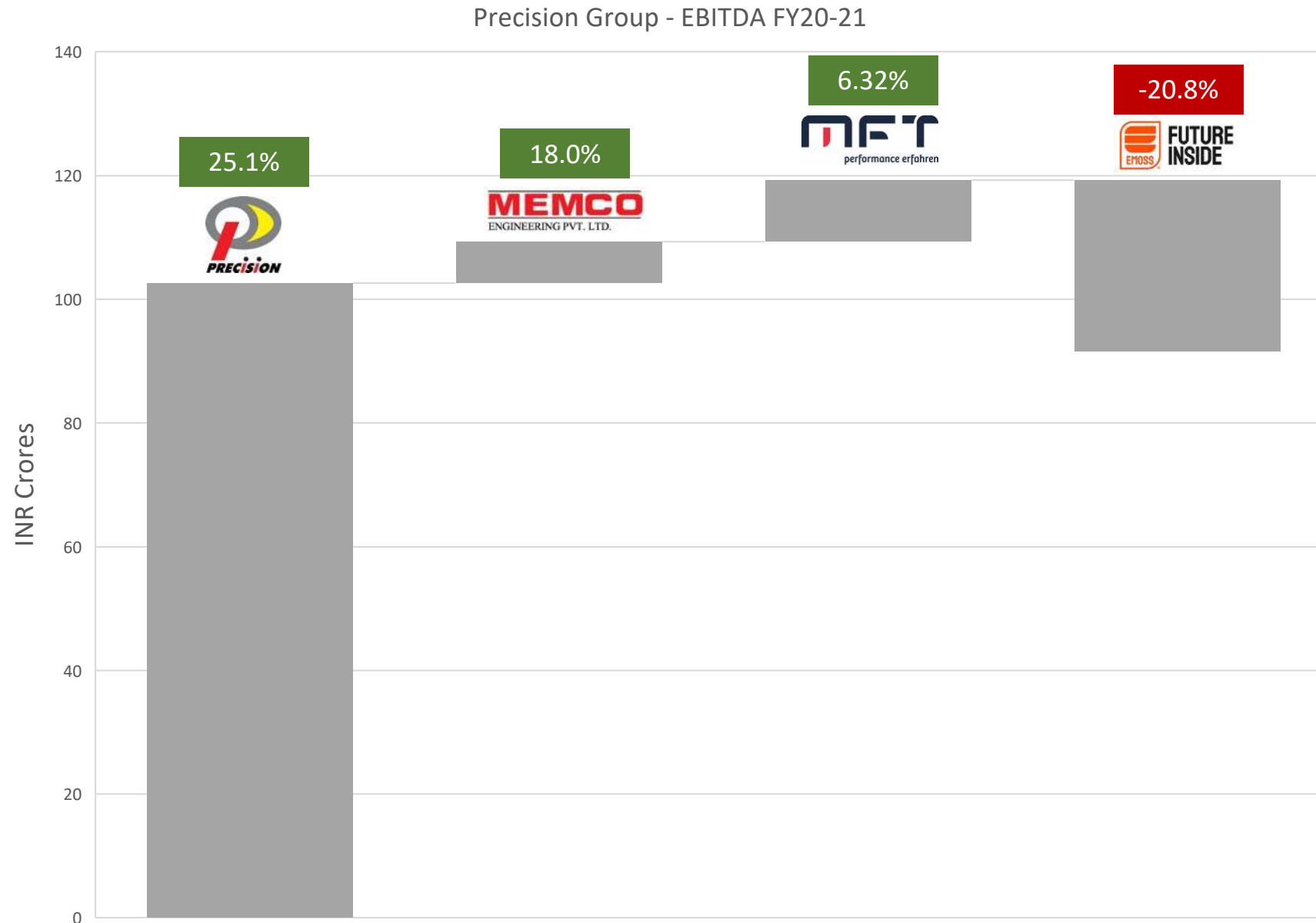
# Financial Performance - Consolidated



# Financial Performance - Consolidated



# Financial Performance - Consolidated



THANK YOU