



**CIE** India

# Forging Chakan Presentation

2023

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# CIE India

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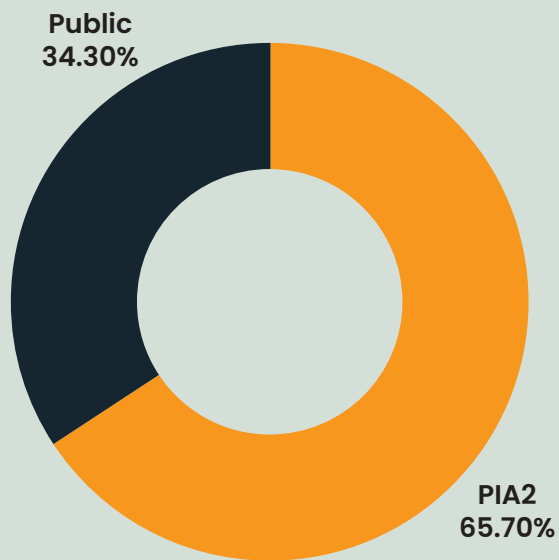


# 1 CIE India Overview

# Who we are

CIE India is a subsidiary of CIE Automotive.

## CIE India SHAREHOLDING



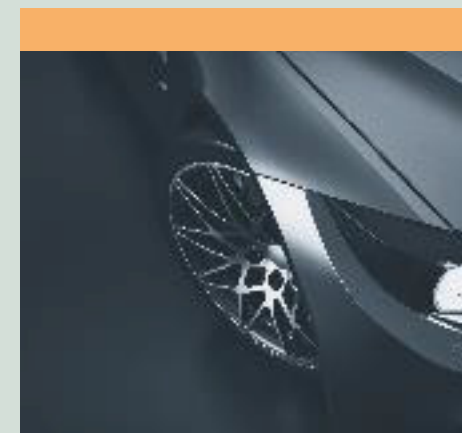
CIE India is listed on BSE and NSE in India.



33 plants and 13,000 + professionals, producing components in various countries and in various technologies.

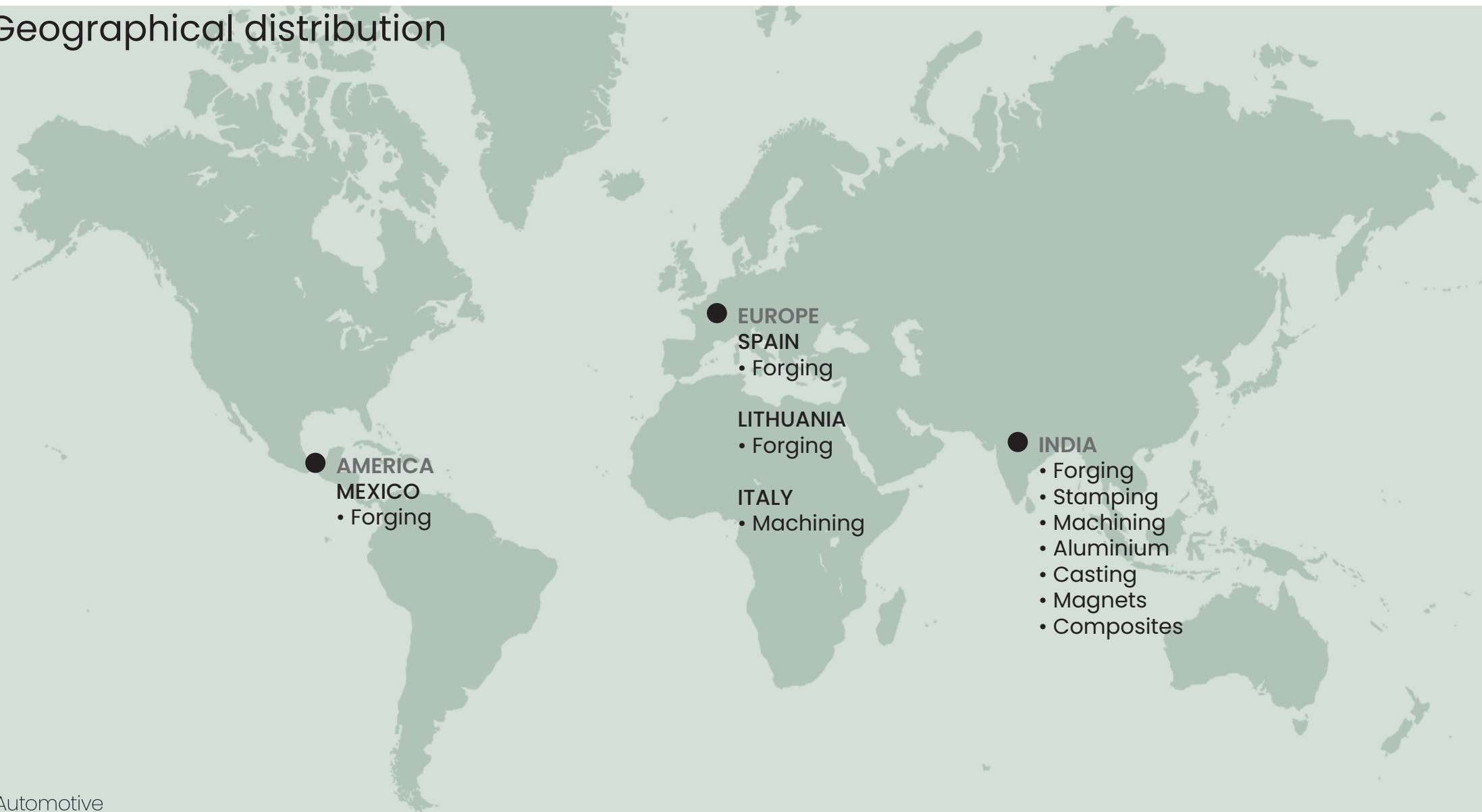


- **FORGING**
- **CASTING**
- **STAMPING**
- **MACHINING**
- **ALUMINIUM**
- **MAGNETS**
- **COMPOSITES**



# CIE India Global

## Geographical distribution



# CIE India Presence

## Plant location



# CIE India in Europe

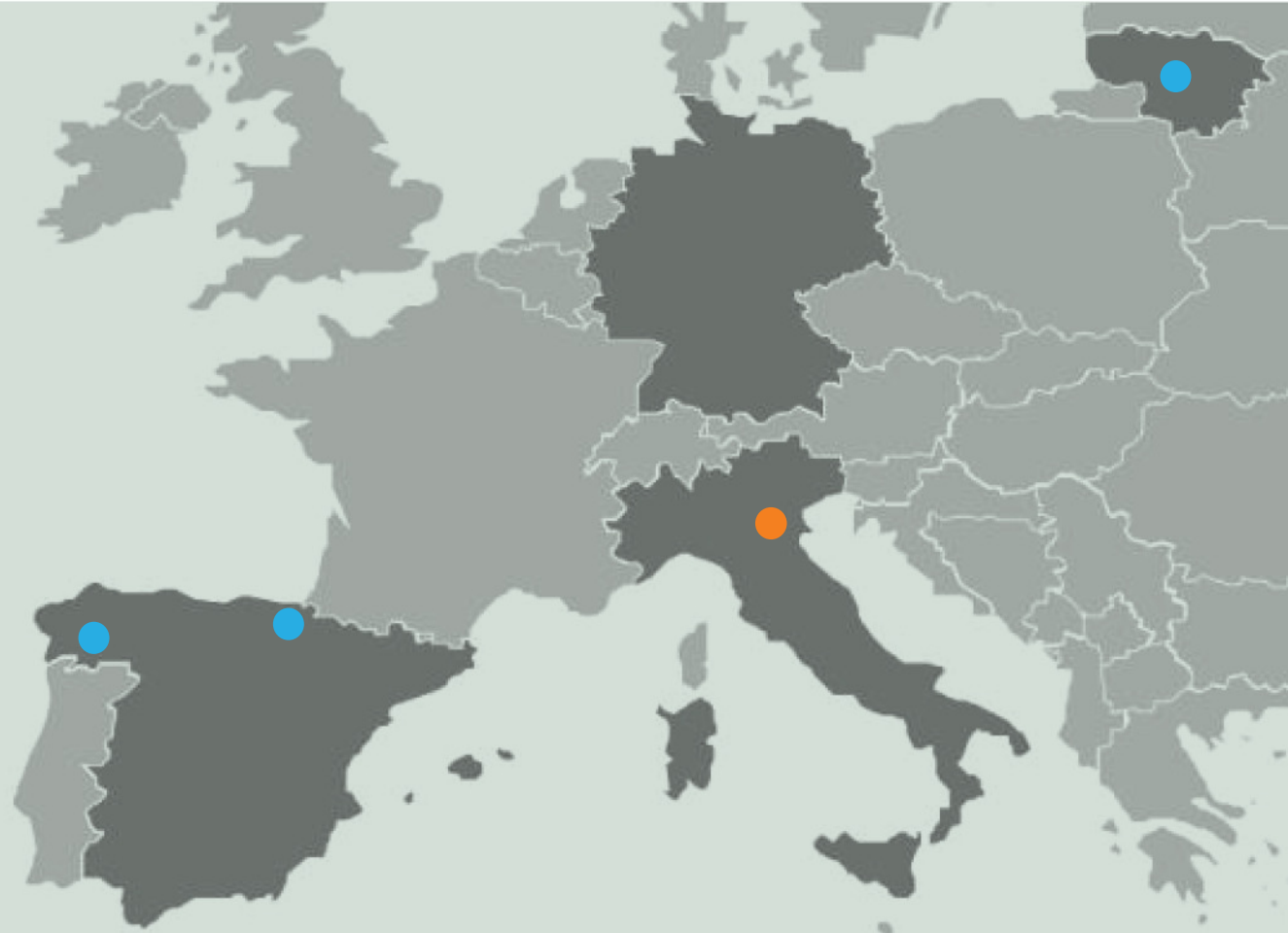
## Plant location

### ● CIE FORGING SPAIN AND LITHUANIA

- 3 Plants
- **Focused on Passenger Vehicles**

### ● METALCASTELLO (GEARS, ITALY)

- 1 Plant
- **Focused on Off-Highway & Agriculture**



# Global Customer List

**BAJAJ**

**KOBENSCHMIDT**

**BOSCH**

**MAHINDRA**

**CAT**

**MAN**

**DAIMLER**

**MARUTI**

**FIAT**

**NEXTEER**

**FORD**

**NIDEC**

**GKN**

**NTN**

**HERO**

**RENAULT**

**HYUNDAI**

**SAF**

**JLR – TATA**

**VOLKSWAGEN**





**2**  
Forging Division

# CIE India Forging Overview

- In house Forging as well as Machining facility.
- Market leaders in Crankshafts & Steering Knuckles in India.
- 4 Million Crankshafts per year.
- Design to Develop, Fully Integrated Facility.
- Automotive, Agriculture, Railway, Mining, Industrials, Construction etc.
- ISO and IATF certified company.

# CIE India Forging Overview

## Processes:

- Forging
- Tooling Shop
- Heat Treatment & Finishing

## Products:

100% Automotive  
Segments Served

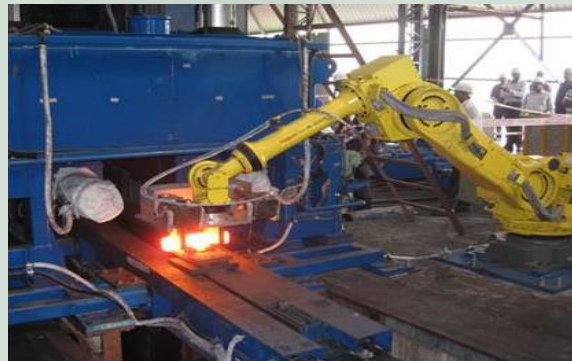


## Range of Machines:

- Vertical Forging: 5 Presses, 4.000 to 6.300 Tn.
- Hammer Line
- Electro- Upsetter Line
- Extrusion Line



# CIE India Forging Overview



Fanuc Robotic Arms for Loading & Unloading Billets

Sr.	Press Size	Forging Weight Range (Kg)
1	6300 T*	20 – 50
2	5000 T*	10 – 48
3	4000 T*	15 – 30
4	4000 T*	10 – 25
5	3000 T*	12 – 17
6	2500 T	5 – 12
7	2500 T	5 – 12
8	2500 T	1 – 4
9	1600 T	1 – 9
10	1000 T	0.50 – 3

\* With Robotic Automation

The plant has a net capacity of 86,000 MT

# Capabilities

## Machines

- ◆ Machining Lines
- ◆ Customized CNCs & SPMs
- ◆ State of the Art Standards Room to Ensure Quality of Product.
- ◆ Next Generation Crankshaft Machining Capability Being Developed.



## Engineering

- ◆ Design Optimization & Co-designing
- ◆ Enhancing Material Flow
- ◆ Fatigue Testing & Validation (ARAI)
- ◆ Balancing
- ◆ Weight Reduction
- ◆ Thermal & Stress Analysis

# Capabilities

## Tool and Die

- Fully Integrated Tool Room with CAD Model, CAM Program Generation & CNC Program Feeding.
- 12 Latest Generation High Speed Machining Centers
- 2 High Accuracy 40,000 rpm 40 ATC Makino Machines.
- 3 Axis CMM for Sample Inspection Monograph & Other Customer Requirements Like Stamping On EDM.



## Heat treatment and Inspection division

- ◆ Hardening & Tempering Furnaces
- ◆ Normalizing & Stress Relieving Furnaces
- ◆ Shot Blasting
- ◆ Magnaflux Particle Inspection





3  
Products

# Products

A





# Products

B



# CIE India

## 4 Certification

# Quality Certification

Our plants are certified: IAT 16949, ISO 14001 & ISO 45001.



# CIE India in India

## Evolution

**OUR FOCUS  
IS TO  
KEEP GROWING  
AT  
HIGH PACE IN  
INDIA  
IN  
COMING YEARS**

- Investment Capacity
- Organic Growth
- Greenfields & Acquisitions
- CIE Technology Transfer to India
- New Products introduction
- Increasing Exports
- Engineering Co-Development
- Global Automotive Market State-of-the-Art Technology
- Global Platform support



**CIE** India

**THANK YOU**