LORAMENDI & AURRENAK

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Core making, Vertical moulding, 3D printing, Tooling, Service.

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Automotive, Industrial vehicles, Railway, Miscellaneous.

04 **Clients**

Some of our clients worldwide.

SOME FACTS

1973

Foundation

Agustin Arana decided to found Loramendi and create his own core blowing company to cover a gap in the Spanish industry.

1986

Beyond Euskadi

Loramendi sold his first machine to China leading the company to a new era.

1989

Key Core System

Development of a system for joining cores through sand, removing external joining elements such as rods or glue. This revolution lead Loramendi to supply full production lines to the US, Germany and China.

2004

We join Mondragon

The company becomes part of the Mondragon group and becomes a cooperative.

2010

Inorganic technology

Loramendi joins BMW and together they manage to stop manufacturing cores with organic chemistry and begin an inorganic process, a mixture of water-sand-silicates and a dehydration curing process that not only raises castings quality but also helps to reduce the carbon footprint.

2011

Vertical moulding

Loramendi patents the first electric vertical molding machine.

2018

Impossible cores

Loramendi develops the Industrialization of Core Printing(ICP), sand cores additive technology. Presented at 2019 GIFA and adopted by BMW next year with 5 printers.

2023

And now, you

We’ll be happy to cooperate to you soon. But first, please go to next slide to understand why.

More about technology here

WHY

3 reasons

EXPERIENCE

50 years

INNOVATION

Knowledge

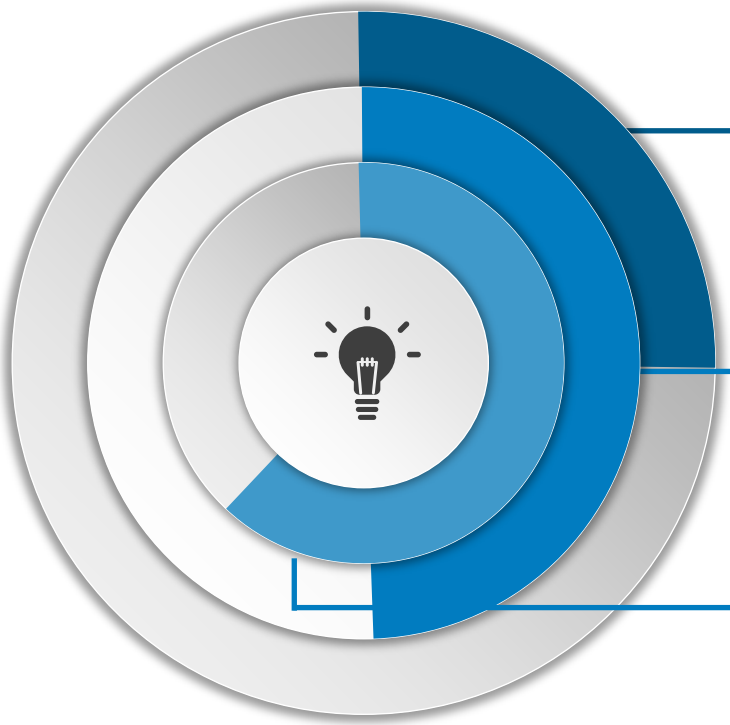
AURRENAK

Partnership

1. EXPERIENCE

50 years providing bright solutions for your foundry.

2. INNOVATION



ICP 3D printing

Automation in additive manufacturing. Serial production. Mind changing design process.

Inorganic Generation II

Higher productivity. Energy saving. Material flow reduction. Design thinking.

Industry 5.0

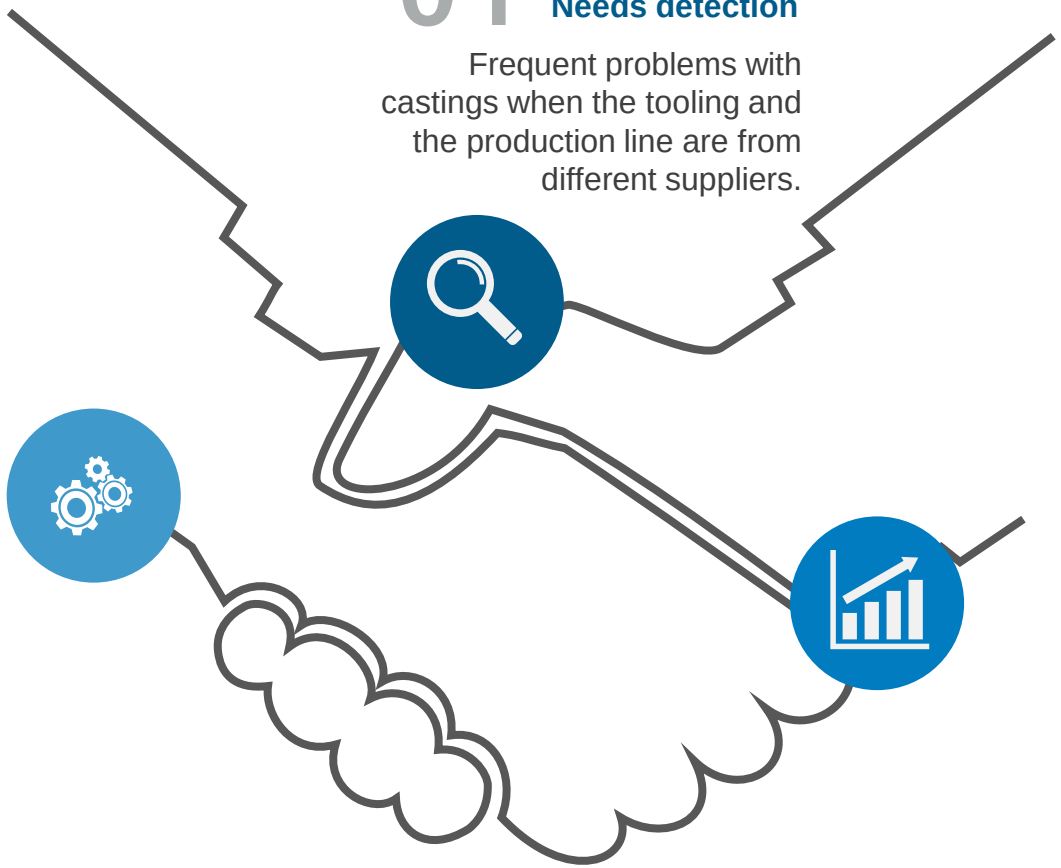
Virtual commissioning. Digital twin. AI supported process.

3. AURRENAK PARTNERSHIP

01

Needs detection

Frequent problems with castings when the tooling and the production line are from different suppliers.



02

Solve problem

We contacted Aurrenak and together we solved those problems and boosted client satisfaction.

03

Start Partnership

We started a partnership with them to avoid predictable problems and offer global solutions.

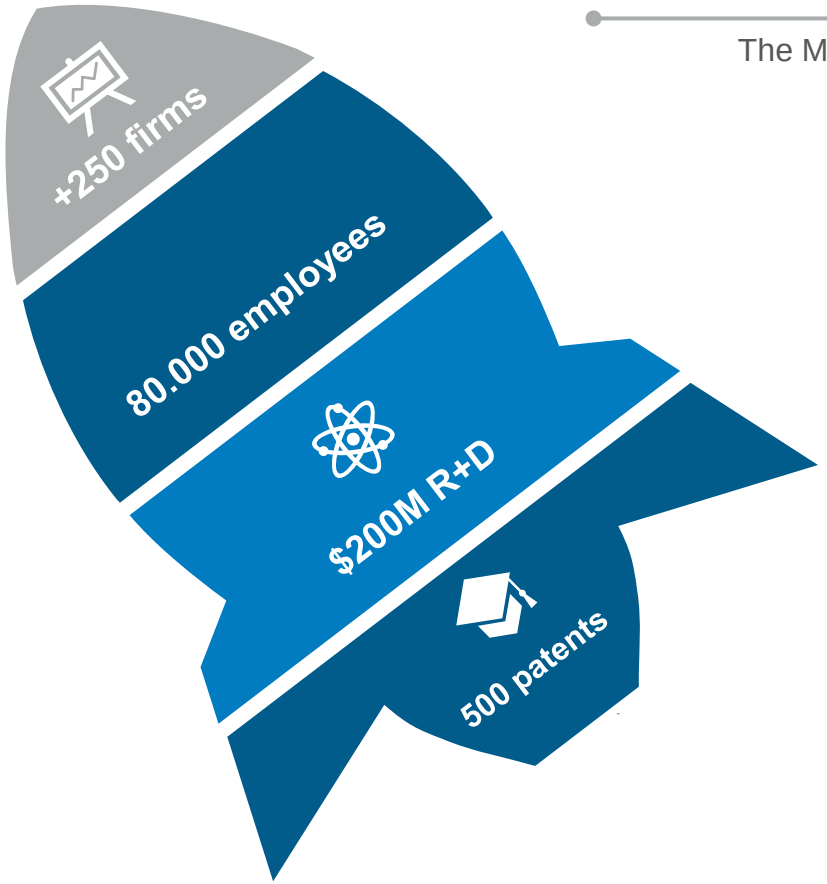
4

But there is another reason that makes us the right partner:

MONDRAGON

You can see more about Mondragon clicking here.

SKYROCKETING TRUST



More than 250 companies

The Mondragon group is made up of more than 250 companies, which gives it presence, synergies **and financial muscle.**

More than 80,000 employees

The number of workers is a sign not only of the presence but also of the **variety of profiles**, which provides added value to the group.

Annual expense in R+D

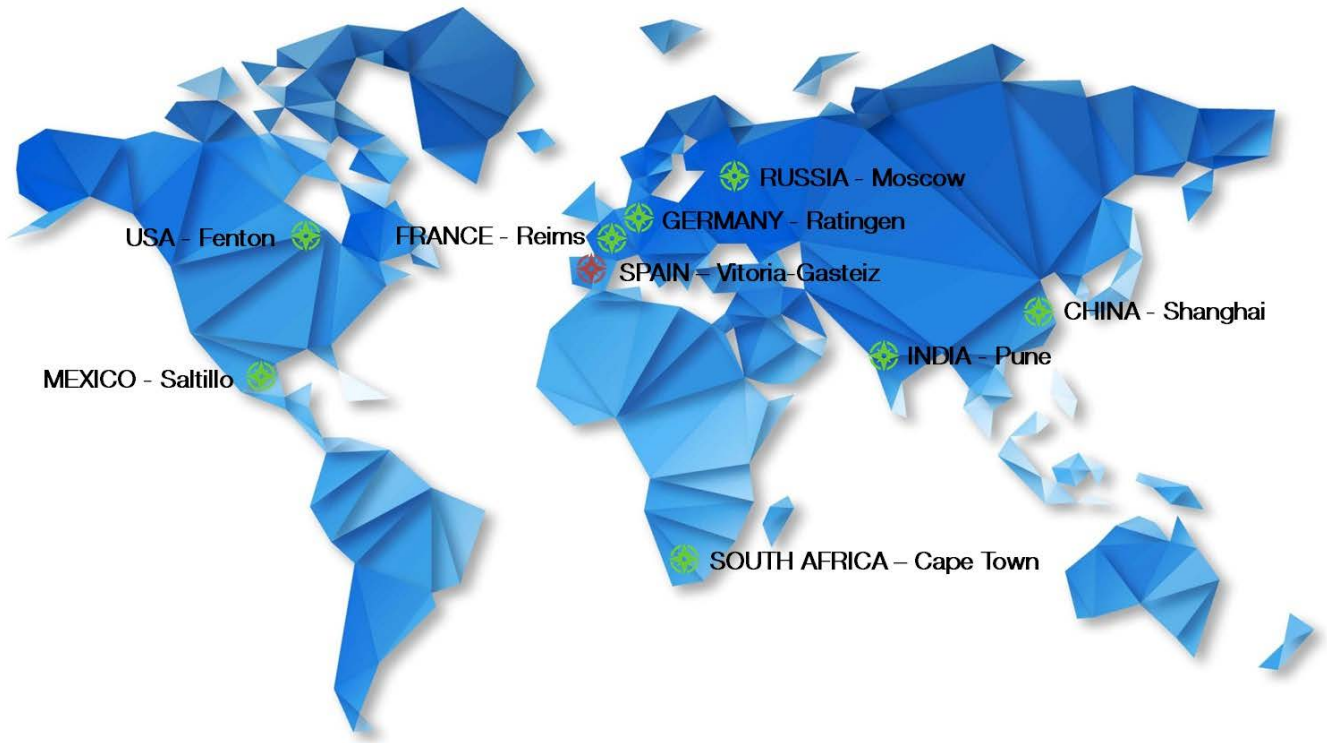
Mondragon is committed to **innovation and development** and has made it one of its pillars with a joint annual investment of more than 200M dollars.

Almost 500 patents

A sign of this commitment to **innovation** are the almost 500 patents Mondragon has in different sectors..

Back to Loramendi

LORAMENDI WORLDWIDE



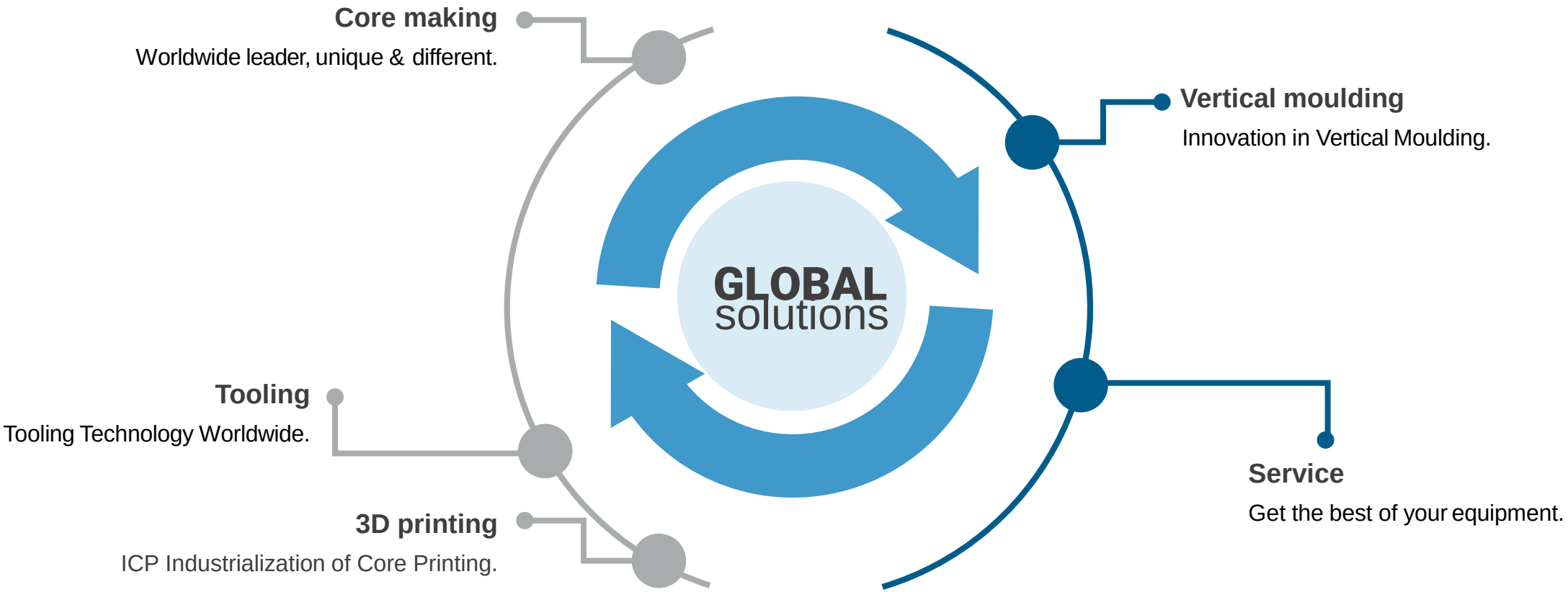
Subsidiaries

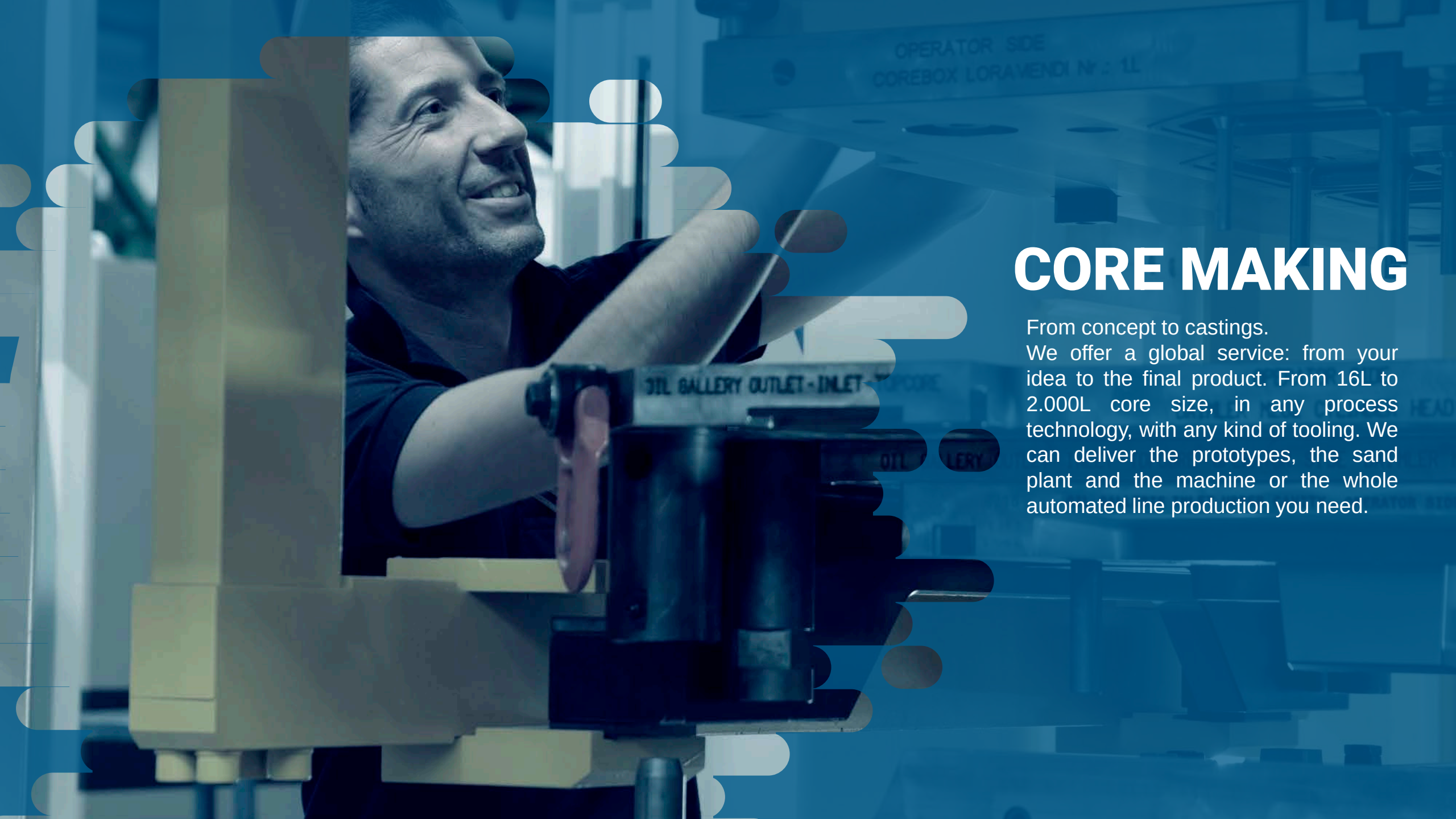
Since 1989 we have created subsidiaries around the world to increase the response rate to our customers. Today we have 7 offices in key cities as Shanghai, Pune, Cape Town, Ratingen, Moscow, Reims, Fenton and Saltillo.

Our headquarters are located in Vitoria-Gasteiz, a technological hub in Euskadi(North Spain).

More about Loramendi's global presence.

BUSINESS UNITS





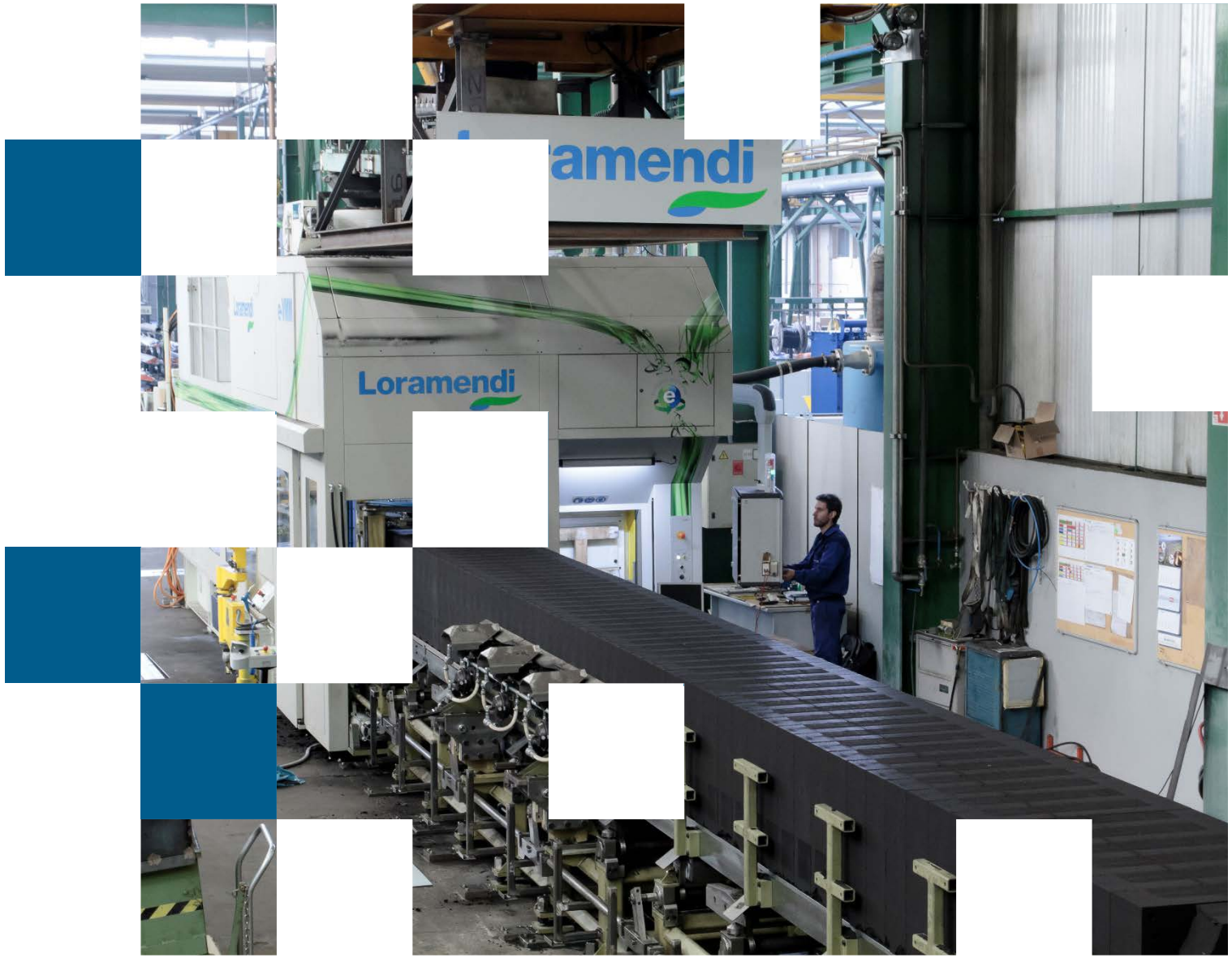
CORE MAKING

From concept to castings.
We offer a global service: from your idea to the final product. From 16L to 2.000L core size, in any process technology, with any kind of tooling. We can deliver the prototypes, the sand plant and the machine or the whole automated line production you need.

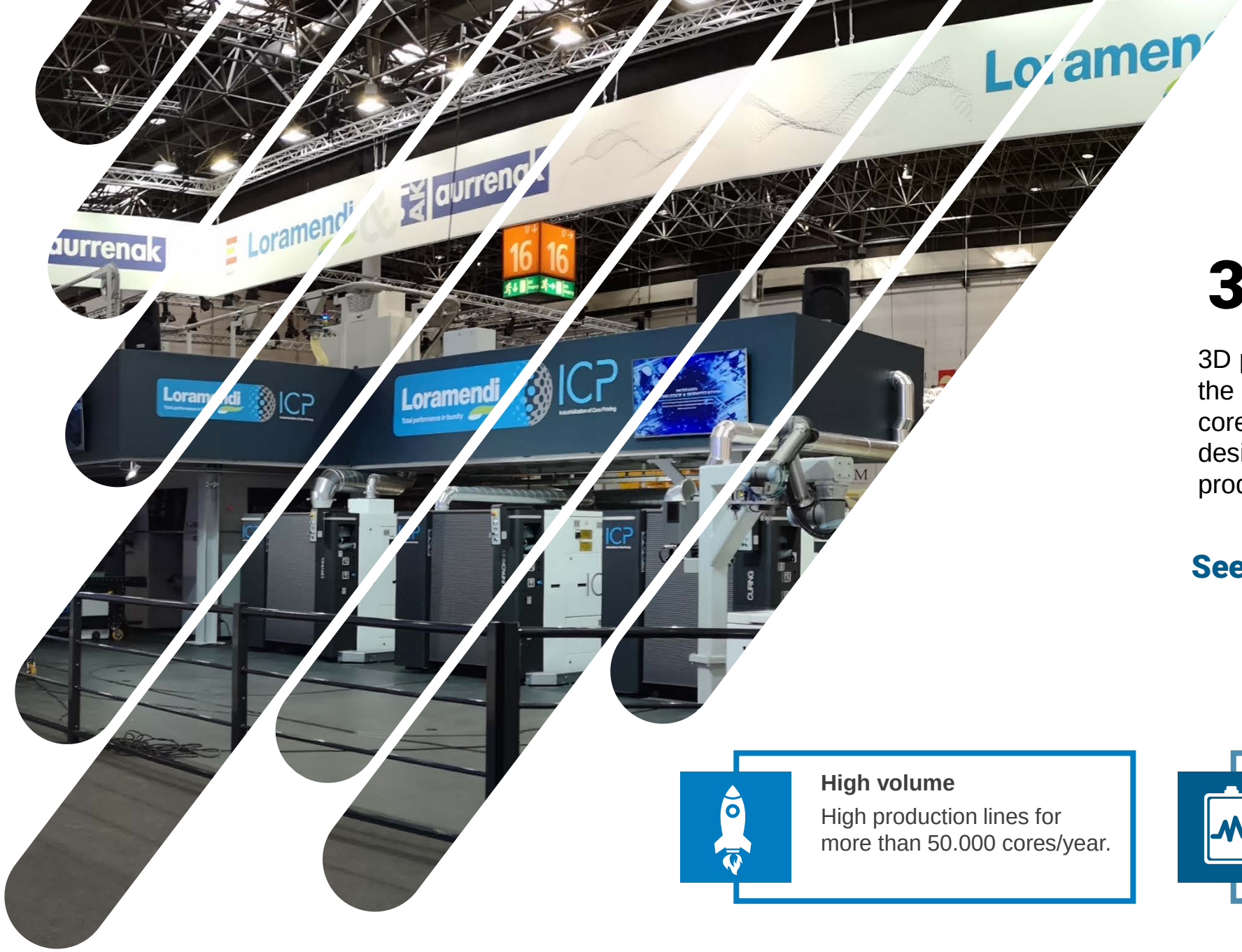
See what we can do

VERTICAL MOULDING

Loramendi eVMM can help you reach your CO2 emission goals and, at the same time, save money on the ever increasing energy cost without sacrificing on quality or productivity of your vertical molding equipment. Our flexibility and adaptation will put you ahead of your competitors and place you in the leading position on the world market.



See what we can do



3D PRINTING

3D printing enable our customers with the massive production of 3D printed cores challenging conventional tooling design limitations to create disruptive product designs.

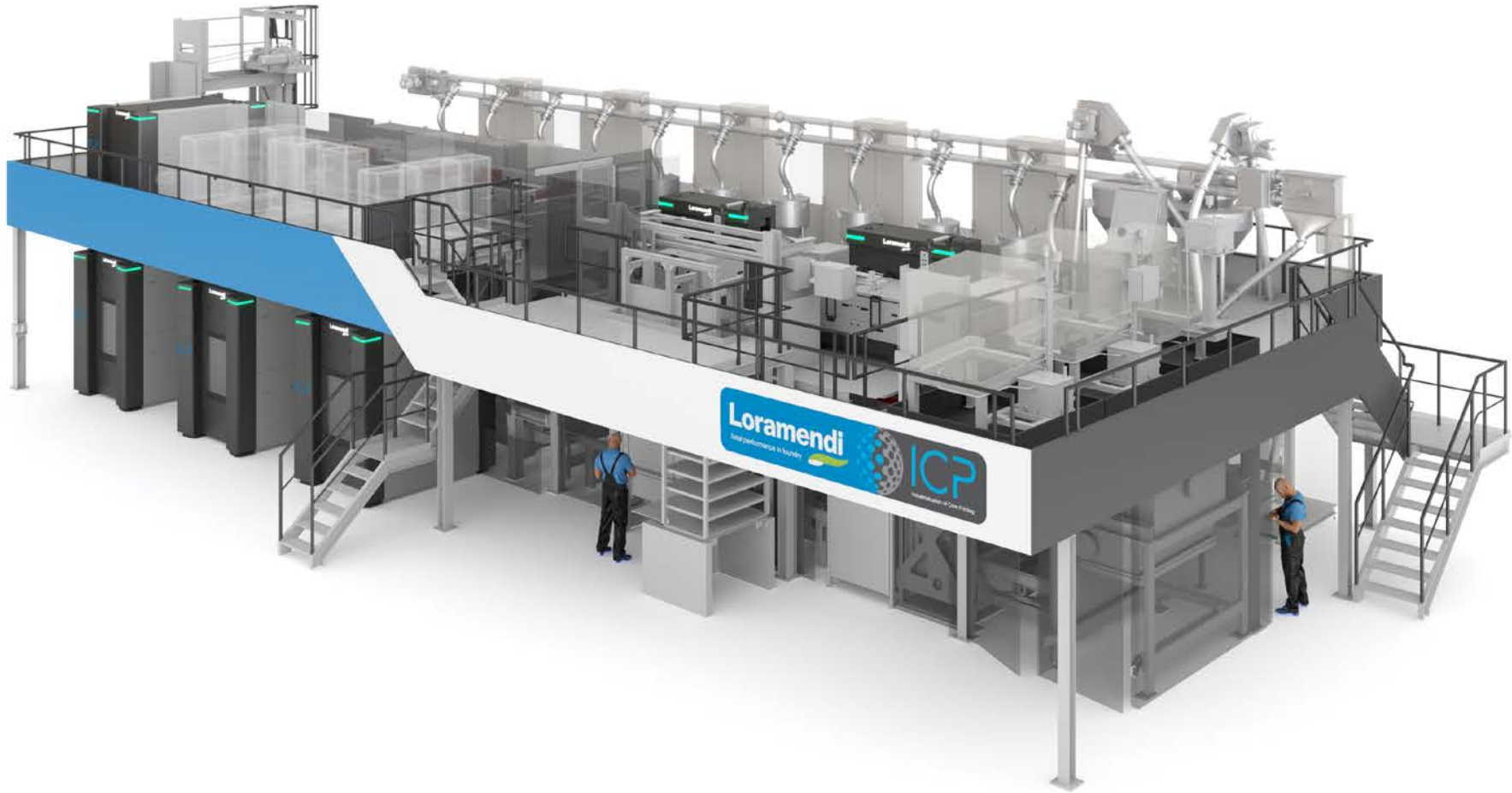
See our 3D printers at last GIFA

High volume

High production lines for more than 50.000 cores/year.

Mid volume

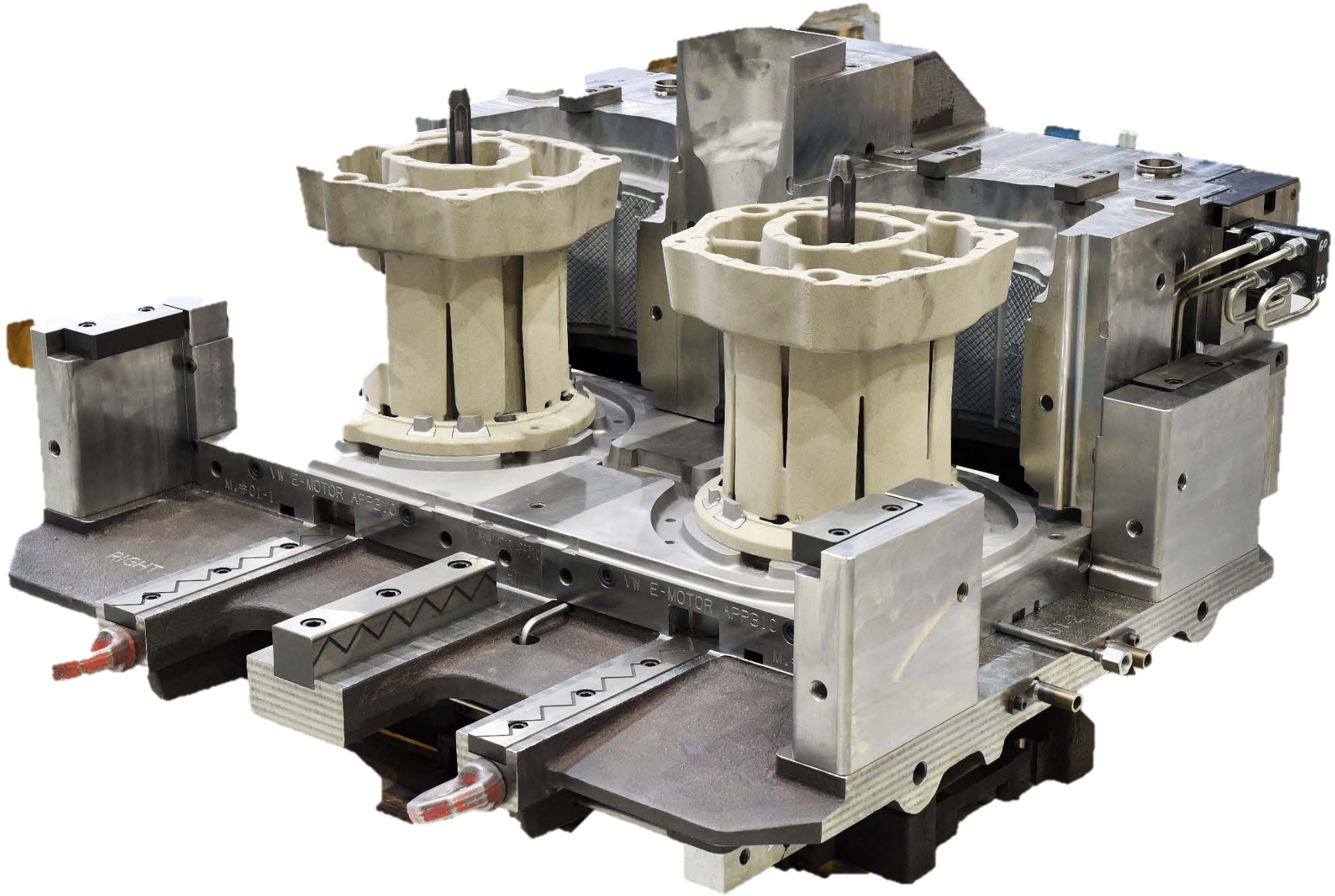
Semi automatic lines for less than 50.000 cores/year.


Loramendi
ICP

TOOLING

- Qualified prototype castings made in Aurrenak
- Innovative engineering solutions
- Dies for structural parts, motorblocks, electrical vehicles
- Big dies manufacturing(up to 60t)

4 chores


VW E-MOTOR
RIGHT

SERVICE

- **Assistance**
  Close to you

- **Spare Parts**
  Spare parts worldwide

- **Upgrade**
  Get the best from your equipment

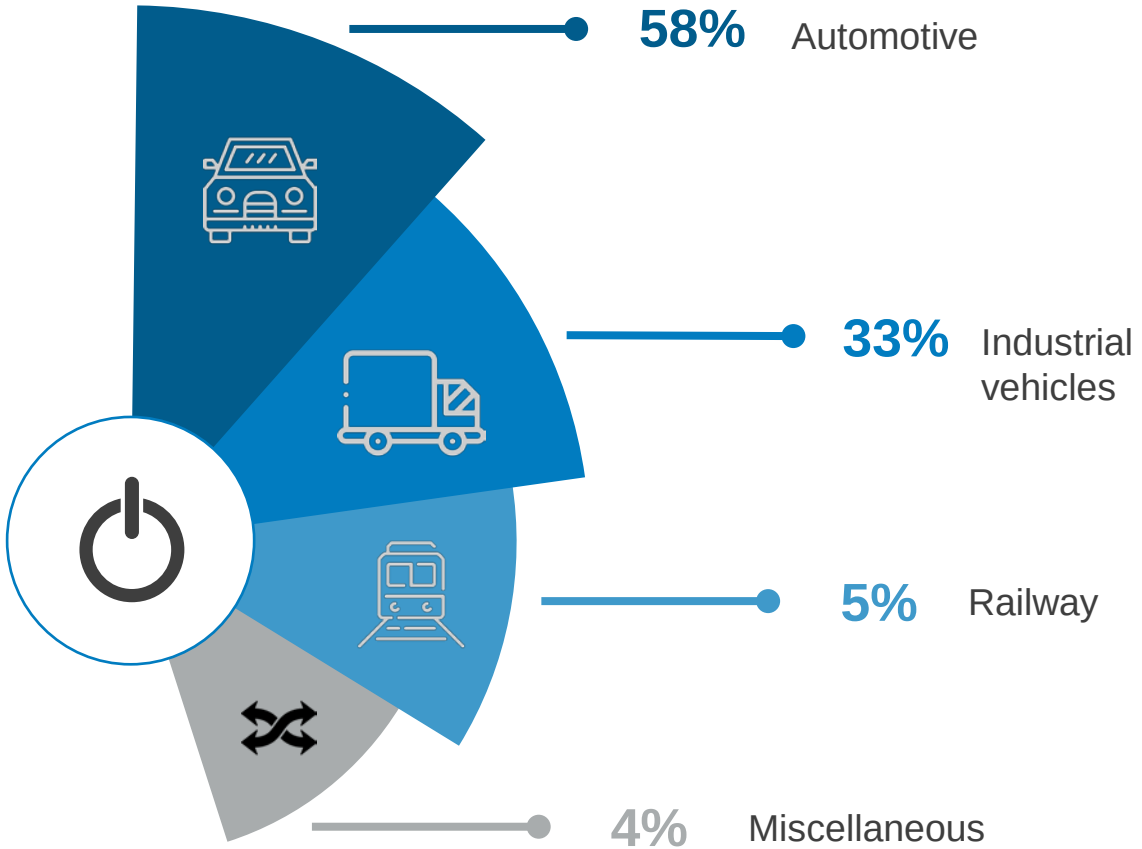
SECTORS

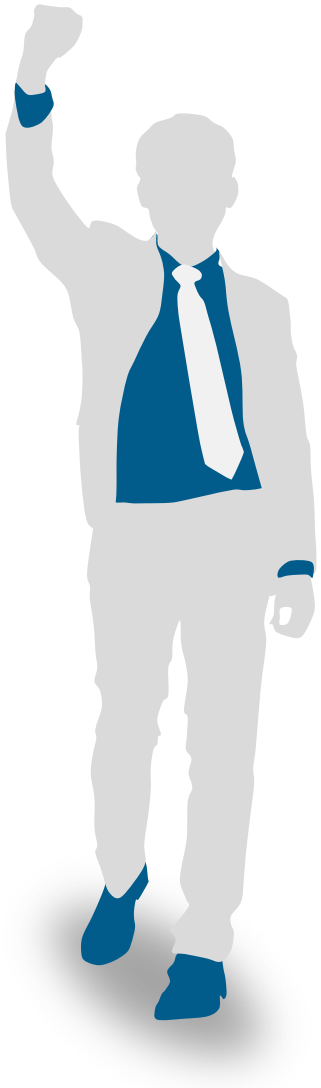
Loramendi

58% More than half of our projects belong to the automotive sector and that makes us experts in the field.

But we also work regularly for two other sectors: first, industrial vehicles mainly for Volvo, Scania and Caterpillar and second, railway sector largely to Kocel and McConway and Torley.

Finally, some of our projects fall into a broader classification; we do things such as pumps, heaters and hydraulic valves.



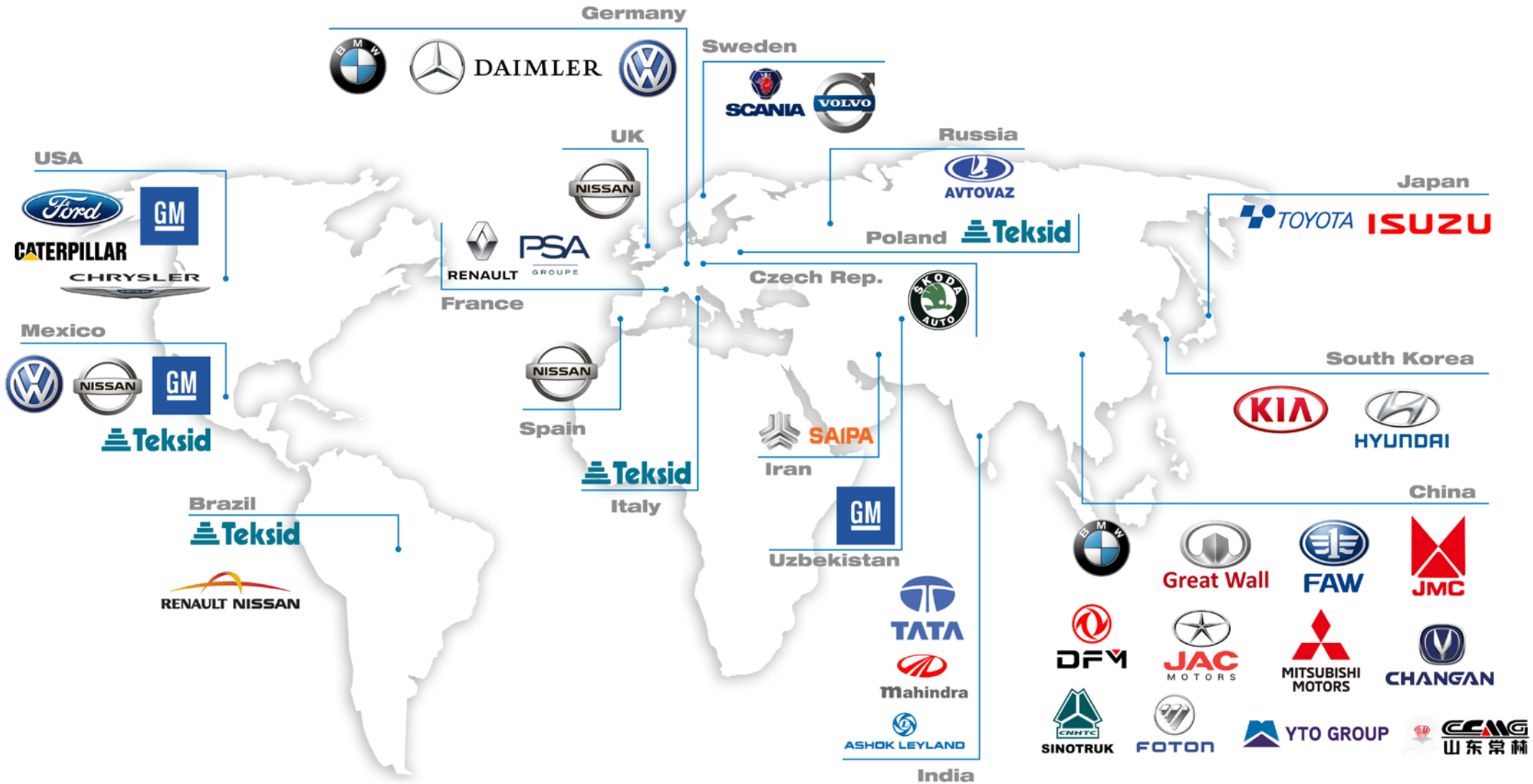


OUR CLIENTS

Satisfaction level

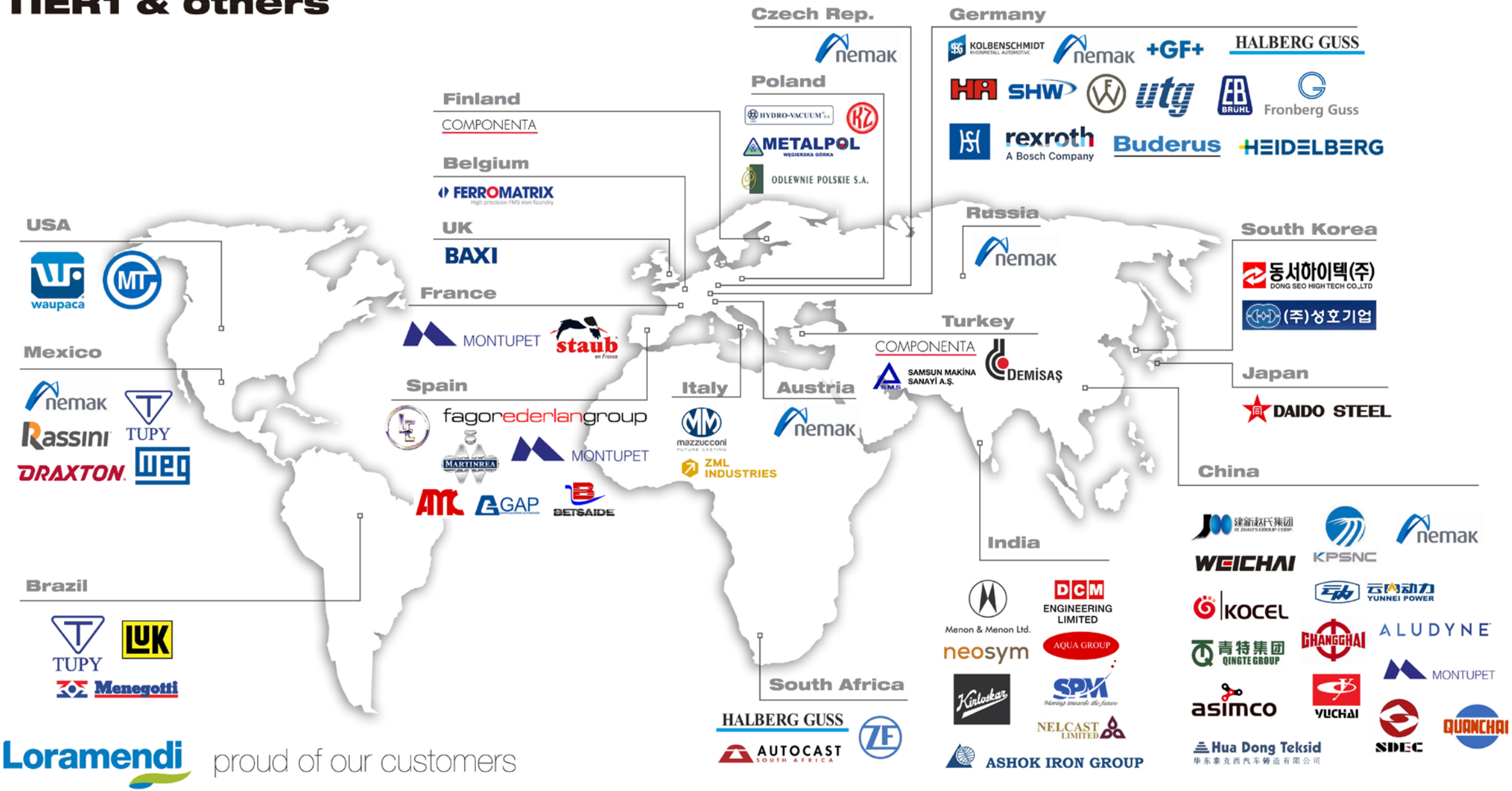
98%

Automotive OEMs



Loramendi proud of our customers

TIER1 & others



Loramendi proud of our customers

Thanks for considering us.