

fagorederlangroup

2010 edition

fagorederlangroup

We are a leading automotive business group focused on Chassis and Powertrain business sectors that offers integral solutions to the market with global service vocation.

group

Innovation is the key driver of our current and future business allowing our technological challenges and generating new activities.

innovation

Our Business Units, Chassis and Powertrain, are focused on the knowledge of product functionality covering a wide range of added value proposals in each and every product line.

business

As a cooperative company within Mondragon Corporation, our essential objective is employment generation. We apply a management model based on sustainable development and social commitment.

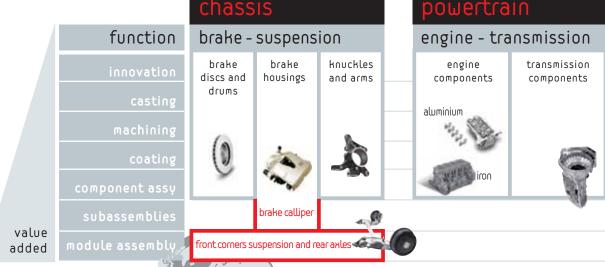
management



We are a leading automotive business

group focused on Chassis and Powertrain, which offers integral solutions to the market.

fagorederlangroup



in ternational

fagorederlangroup

presence



Highlights



Our clear service vocation

has led our international market presence, allowing us to become a global service supplier for the main market regions through production plants in West-East Europe and Brazil, alliances in market regions such as Asia and Nafta.

- chassis
 - 1 Eskoriatza foundry
 - 2 Usurbil foundry
 - 3 Uribarri foundry
 - 4 Markulete foundry
 - 5 Uribarri machining
 - 6 FIT Automocion
 - 7 Automodulos Aragon
 - 8 Fagor Ederlan Borja
 - 9 Uribarri Low Pressure
 - 14 Fagor Ederlan Brasileira machining
 - 15 Fagor Ederlan Brasileira foundry
- powertrain
 - 10 Aluminium Eskoriatza
 - 11 Aluminium Aretxabaleta
 - 12 Fagor Ederlan Tafalla
 - 13 Fagor Ederlan Slovensko
- production alliances
 - 1 China
 - 2 Korea
 - 3 Nafta

- technology centre EDERTEK
- globalisation projects
 - 1 USA
 - 2 Russia
- sales offices
 - **1** UK
 - 2 France
 - 3 Germany
 - 4 Italy
 - 5 Korea
 - 6 Japan
 - 7 China

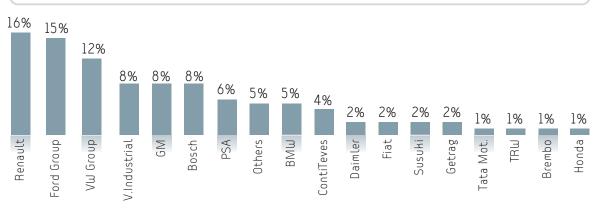


Customers

40 years of experience with the main automotive manufacturers and related Tier 1's endorsed us a full service supplier.



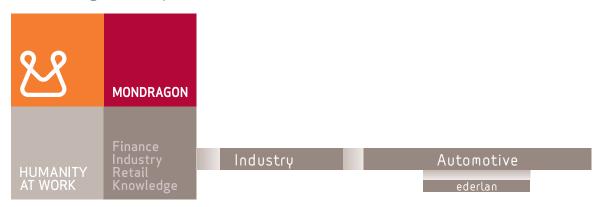
sales 2009 by customer





Mondragon Corporation

We are part of the biggest cooperative group in the world, Mondragon Corporation.



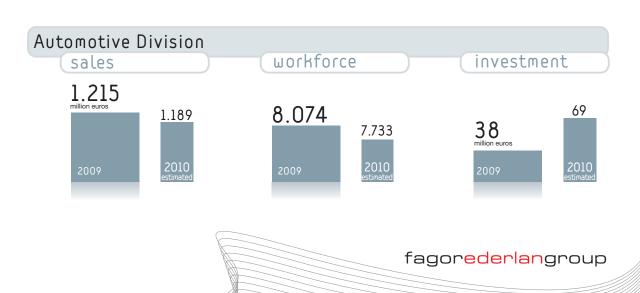




Mondragon Automotive Division

is an amalgamation of common strategies and synergies of all the automotive companies of the group.







Innovation, our way of doing

The base of our innovation capacity is our knowledge, as an expert supplier. With more than 45 years experience in the Automotive Industry, we are a technology leader in aluminium casting, iron casting, machining and assembly processes.

Conception

Requirement Analysis
Idea Generation
Idea Evaluation
Project Planning

Implementation

Development/Constructior Prototype Dev. Pilot Application Testing

Market

Production Market Launch and Penetration









Innovation is the key driver for Fagor Ederlan Group acitivity and generation of new business.

Edertek, our technological centre, has as a primary target the investigation and development of new products, processes and materials that met the highest market place challeges. Registered as a science and technological agent it is located in the Garaia Innovation park, a space for excellence that joins companies

and technological centres from
Mondragon corporation such as
Mondragon Universtity, Ikerlan and
Tecnalia, with which Edertek has
signed collaboration agreements.
Our technological alliance policy leads
us to set collaboration agreements
with market technological leader.



GARAIA



We offer solutions in the most important key drivers of the market

We work through material research and product design to obtain optimum product solution: short cycle product life (lead time from launch to market) light product solution (design of light casting product and use of light materials) and high performance.



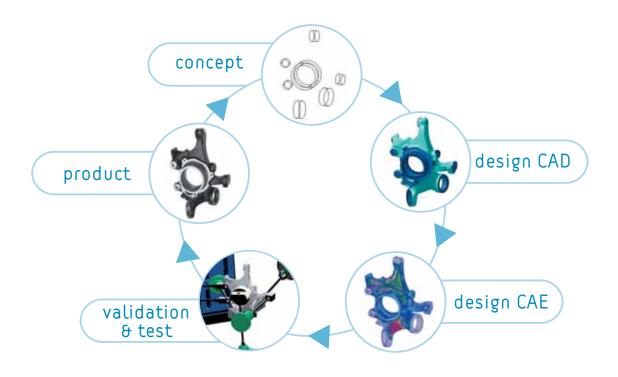


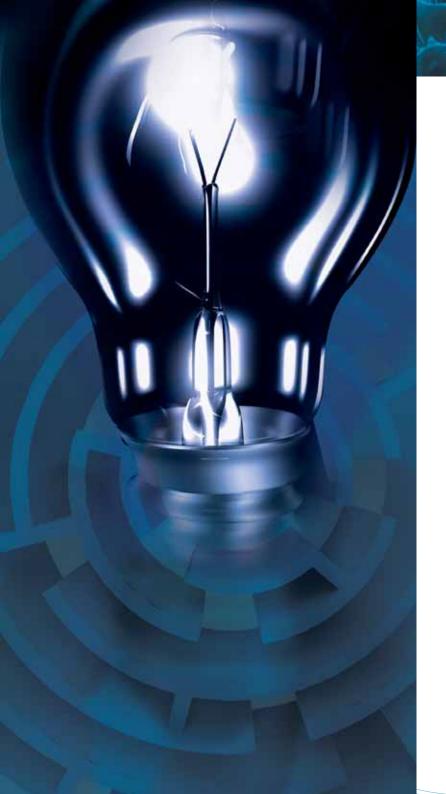




From the concept to the solution

Our development expertise apply to all products within Fagor Ederlan Group and to the complete process chain value phases.

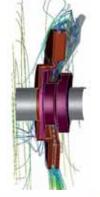




















































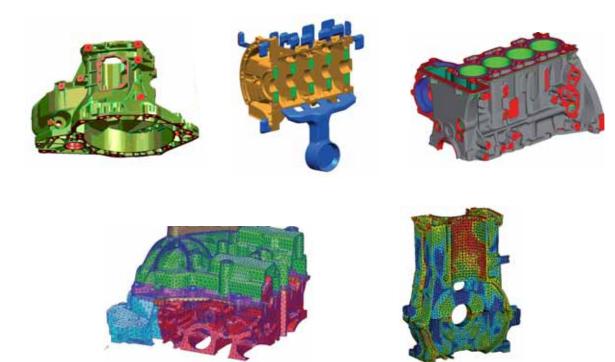








Powertrain: Product Design Experience





















With focus on process

We investigate in order to increase and reinforce the competiveness of our process.

We focus on areas such as process flexibility, continous improvement process capability and synergies optimization within different process steps in order to eliminitae no value operations so consecuently reduce process leadtime.

melting



metalurgical quality elaboration

casting



development of high capable processes

post-casting



maximun flexibility and synergies with casting and machinning

machinning

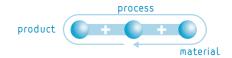


Flexibility lines according to product requierements





Adding value continuously



With focus on tools

We understand the tools design as part of our integral process development activity and it gives us a technological differential because we reduce the launch project leadtime and the impact of tools on cost and product quality





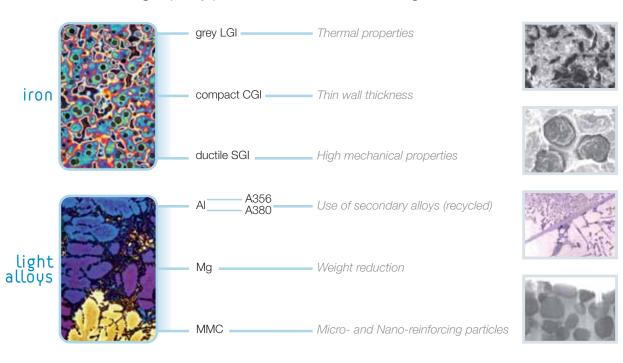




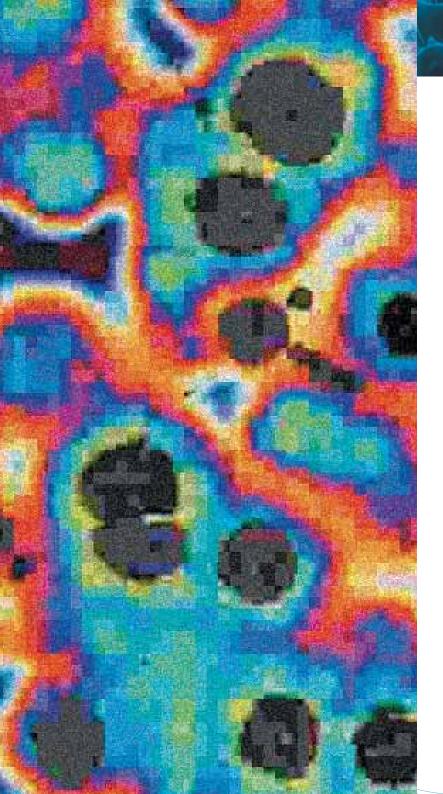
With focus on material

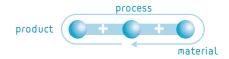
Our research in this are is aligned with product requirement, looking for the best properties and material solutions.

Optimisation of metallurgical quality is our focus for high quality performance product, coverall all the process stages in casting and treatment.









Innovation in house facilities: pre industrialisation

We have internal innovation production facilities that allow us to validate, try and improve our design capacity. We have a prototype area equipped with the latest technologies.



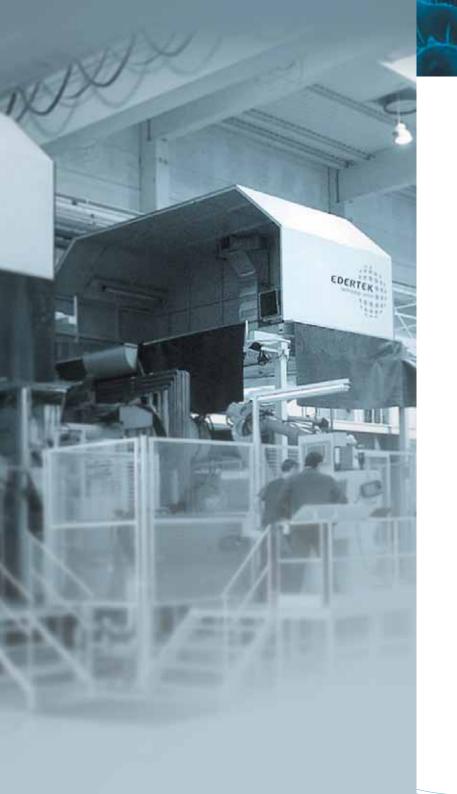
High pressure cell

2700 Tn. locking force 1Tn/h melting capacity 2 Tn. holding capacity 2800 kg. dosing capacity Vacural & conventional vacuum technology Robot for lubrification Robot for extracting the part Water & oil thermal regulators 20 Thermocouples monitoring Flow & temp. automatic control in 5 circuits 640x480 pixel thermocamera



Low pressure cell

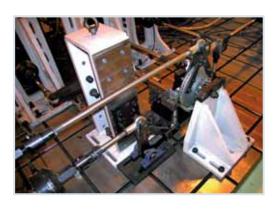
1000 kilo aluminium casting furnace Moulds for parts up to 1200x1775mm & 60 kg. Xray equipment, Machining control Quick cooling system

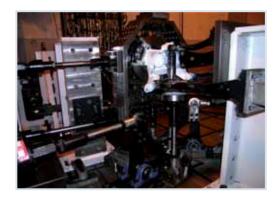




Innovation in house facilities: test

we have internal innovation facilities for creating prototypes, carrying out testing, validating product and process innovations.





Testing equipment

24 hydraulic actuators
Inertia dynamometer
Drop Impact tester
Noise&vibration analyser





Innovation in house facilities: engineering applications

We support our customers with collaborative designs as an expert supplier, with knowledge of the product function and the process.

Data and project management:

Windhchill

Product and tooling design:

Catia v5, Unigraphics NX, Pro-Engineer Wildfire, I-deas

Product verification:

Abaqus, Nastran, Fluent, Adams, Fatigue, Patran, HyperWorks, ...

Process verification:

Procast, Magma, Tecnomatix Plant Simulation

Data interchange:

KVS, OEM-Advantage, Leapfile, Autoweb, Odette, Galia, FTP,...



Our Business Units

Chassis and Powertrain, are focused on their knowledge of production functionality covering a wide range of added value proposals in each and every product line.

chassis

powertrain



Chassis

The Chassis business unit is a master for the key components of Brake and Suspension functionality. From our experiences and innovation resources, we are able to offer the best option of products and modules in terms of weight, material, process and cost to the global service demand required.









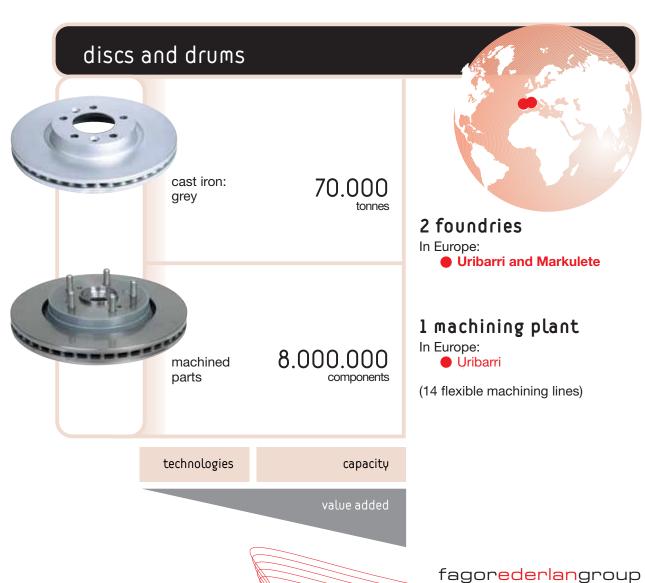


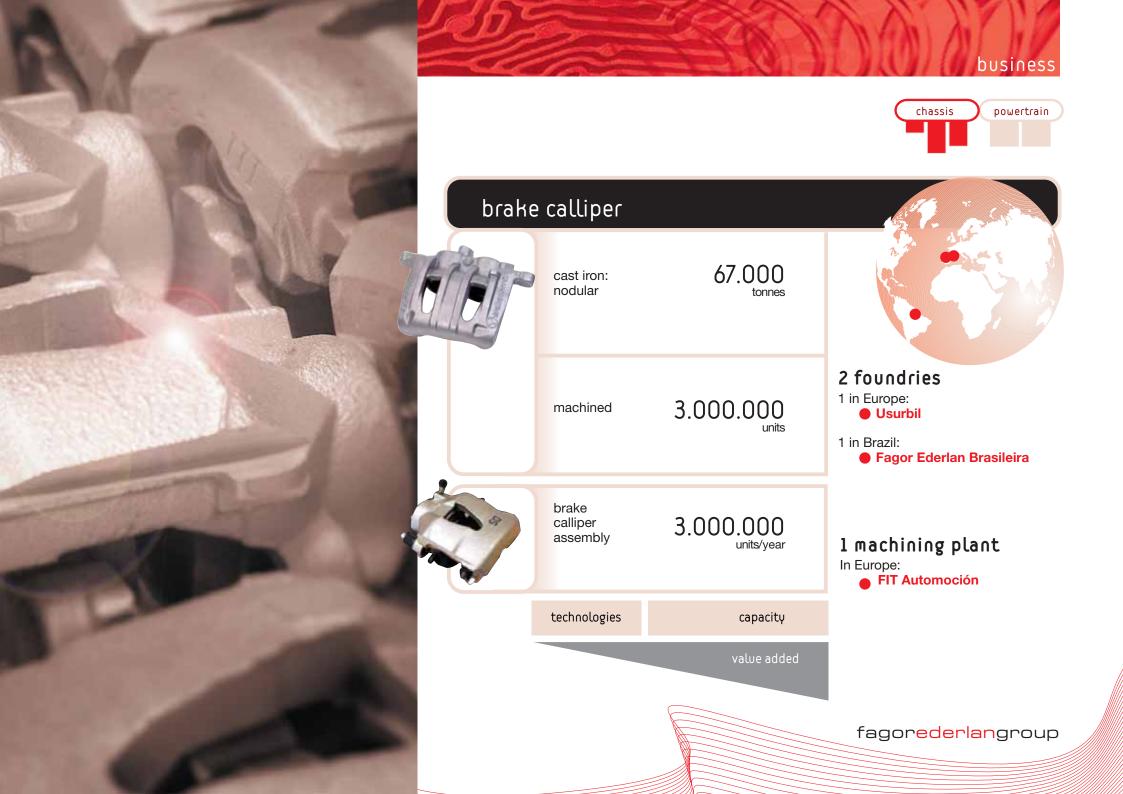


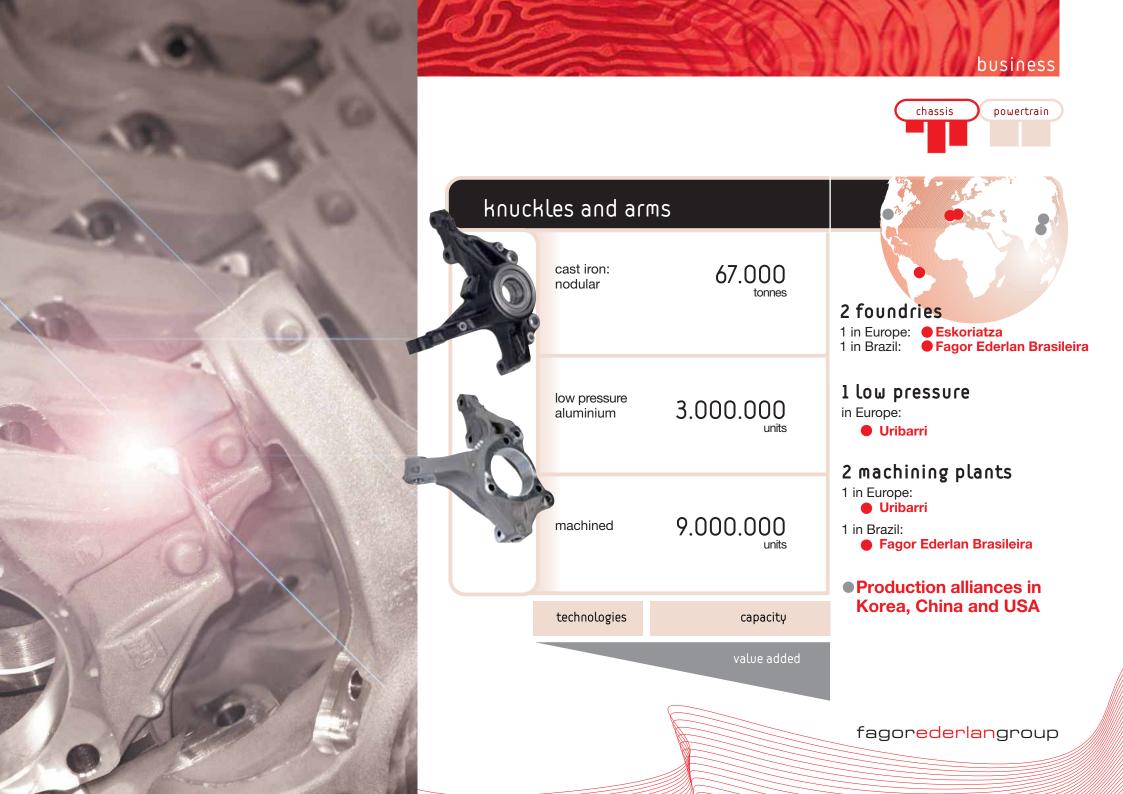


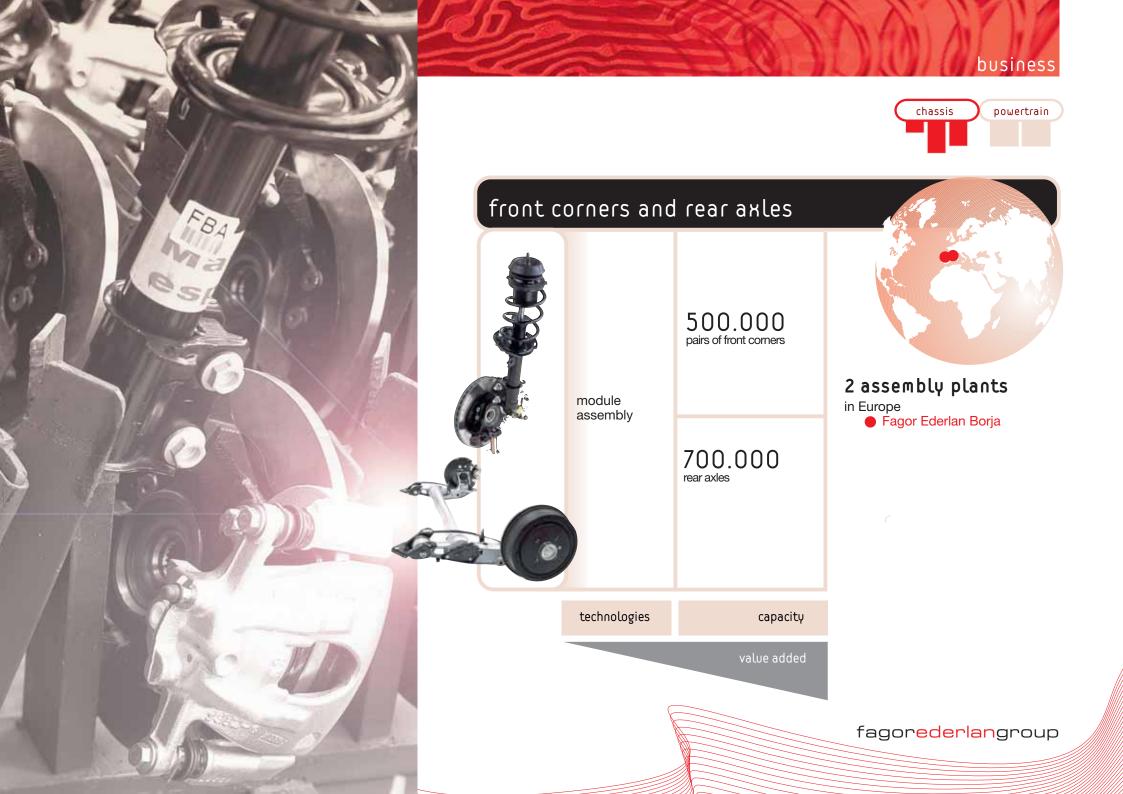
















Offers to the market complete solutions, improving its position on the basis of its knowledge of the Engine-Transmission function.

Technological leaders in high-pressure aluminium die-casting, iron casting and machining for engine and transmission components, we offer high added value solutions.















technologies

capacity

high pressure aluminium diecasting components 38.000 tonnes/year

grey cast iron, engine blocks and cylinder heads 140.000 tonnes

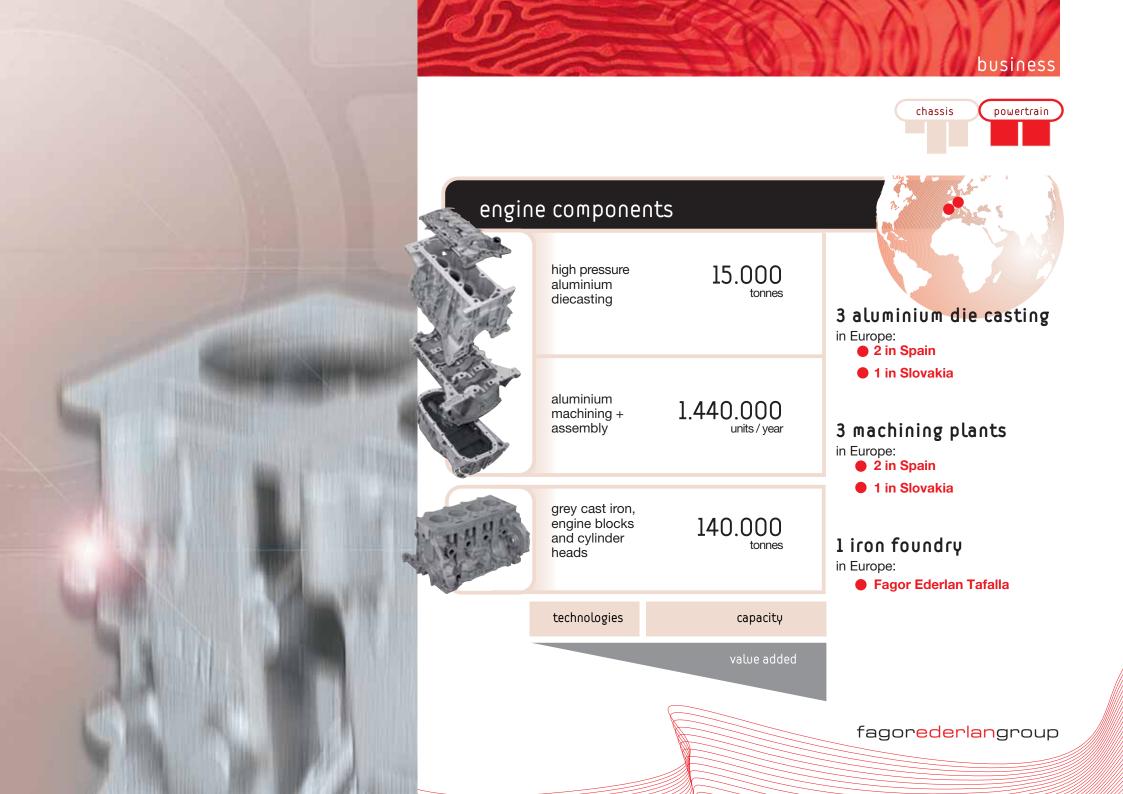
machining

1.440.000 units/year



fagor<mark>ederlan</mark>group







Social commitment

Continuous job creation, preferably on a co-operative basis with full value added, progressively turning our subsidiaries into co-operatives, and promoting social models of work. Participation and internal democracy as an ethical and human form of relationship and governing the co-operative organisation.

In-service training and personal development as a basis for the future, with high levels of internal promotion and a boost to professional and personal qualifications at all structural levels.

Solidarity and involvement in the community through the Co-operative Promotion and Education Fund (FEPC) and the Inter-co-operative Promotion and Education Fund (FEPI). Direct collaboration with civil administration to establish and develop cultural and sustainability policies.

Exceptional internationalisation model aimed at maintaining activity and employment levels at the parent organisation level.





Environmental commitment

That goes beyond the legal requirements and is deployed within the framework of government collaboration.

Environmental Guidelines with the Basque Government (2004), and signing of Voluntary Agreements as a contribution to the Basque Environmental Strategy for Sustainable Development 2002-2020.

Strategic initiatives aimed the full life cycle of the vehicle.

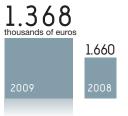
Awareness that excellence in environmental management requires behaviour from people in tune with their values.

Environmental management increasingly more integrated in the notion of the sustainable company where sustainability is understood from a social, economic and environmental perspective born from our own co-operative principles.

investments



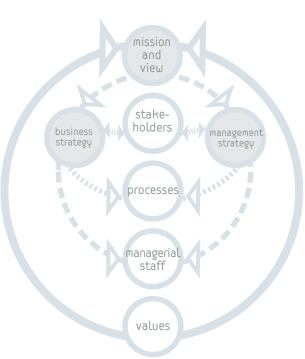
costs







Our Management Model is part of a people-based project, focused on the principles and values that are the identifying features of an outstanding socio-business project.



basic policies

Management systems certified to the highest market standards:

ISO-TS 16949:2002 ISO 9001:2000 ISO 14001 **OHSAS 18001**

An environmental commitment within a framework of sustainability beyond the legal requirements: establishment of Voluntary Agreements with the Basque Government as part of collaboration in the Basque Environmental Strategy for Sustainable Development.

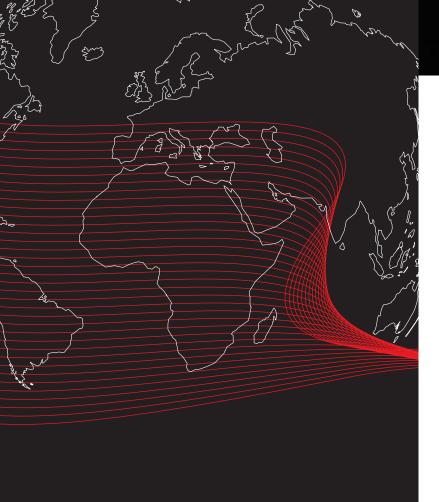












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