



# Forma 5 **esPattio**

Environmental policy  
2023

# Introduction

The environment is not just a sales argument or a trendy issue for Grupo Forma 5.

It is in fact a crucial matter within our organization as it is essential, while designing and developing products.

The demographic growth (about 60% during the last 30 years), the merging countries development and especially the incapacity of the different countries leaders to make drastic decisions to preserve the environmental heritage lead us to establish a corporate social responsibility policy.

Innovation must consider the impact it may have on the environment. In this sense, it is a logical and essential process for Grupo Forma 5, which provides a continuous service to clients and distributors.

Grupo Forma 5 is certified with the ISO 14001 and all products, productions and processes are part of a sustainable development policy. In addition, we are now in the process of developing the life cycle analysis of all our products, so that we can provide more information about the improvement and environmental commitment, that we take into consideration during all design and production phases.

Grupo Forma 5 guarantees that the production process respects the ethical code and a healthy and social development.

# About Grupo Forma 5

In recent years, Grupo Forma 5 has an average turnover of EUR **40** mio. We produce elements needed at an executive office, task seating, chairs collaborative and meeting areas and storage.



Our facilities have more than **75.000** m<sup>2</sup>, where about **340** people work. Their main goal is to satisfy our clients' needs.

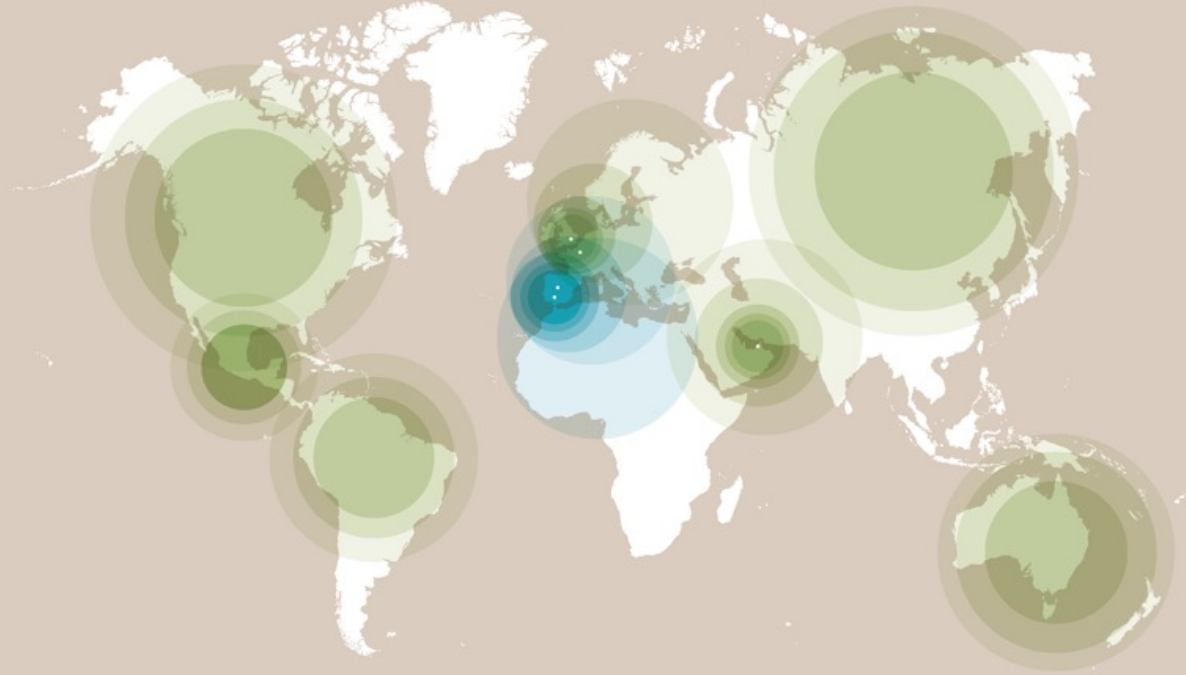


Seville, Spain

Nowadays our market is:

Spain 52%

Exports 48%



## Cutting-edge technologies

Assembly robots, painting lines, drills, cut off machines, edging machines with self-supply, low consumption engines, cut optimizing machines and automated unloading...

These investments pursue:

- Permanent guaranteed quality for our clients.
- Reduce to the maximum our impact on the environment, using efficient material, human and energetic resources to achieve the best product for the client, regarding quality, security, delivery time and price.



## Production & logistic

### Producción

**Melamine:** Our production is **4,800** pieces a day.

**Veneer:** We produce **250** pieces a day, this includes all the process associated to the manufacture like cutting, lacquer, assembly, ...

**Metallic:** We produce **250** pieces a day, considering all the processes associated.

**Seats:** Our production is **1,500** pieces a day. This includes all processes needed like cutting, hydraulic pressure, chrome plating, ...



### Logística

**9** loading docks to make easier the loading of Grupo Forma 5 trucks.

**4,000** m<sup>2</sup> warehouse used to stock and preload the material.

**3,250** consignments per year currently.

**4,300** pieces a day loaded for delivery to our clients around the world.

# Committed to the quality standards and the environment

## **A** Production unity and process

- A committed company
- Environmental improvements
- ISO 14006 certification
- ISO 14001 certification
- ISO 9001 certification

## **B** Committed to our product

- A concept adapted to the products
- Certification and quality
- Environmental product declaration
- Recycled and recyclable materials

## **C** Packing and logistics

- Space optimization system
- Recycled packing manufacturing system

**A Production unity and process**

## A committed company

Grupo Forma 5 is committed to the environment and the city. It has been located in Seville for 35 years. The facilities have more than 75.000 m<sup>2</sup> and more than 300 direct employees.

The company employs local workforce and has agreements with local companies within a 200 km area.

Choosing local partners is not only a matter of price, but also of sharing the same values and philosophy: ISO 9001 and ISO 14001 certifications and an ethical code.



Grupo Forma 5 knows how important it is to preserve the environment and to adopt a sustainable development, which satisfies actual needs without compromising the future ones. The company follows an environmental policy and has an Environmental Management System to materialize the commitment to the environment.

We know how sensitive people are regarding environmental innovation and this is why it is a priority for us to provide this information about the processes, materials, packings and improvements, which are included in all our products.



The environmental policy is based on 3 pillars:

- Preventing pollution
- Accomplishing legal aspects and other requirements related to environmental issues
- Communication and implying providers and distributors

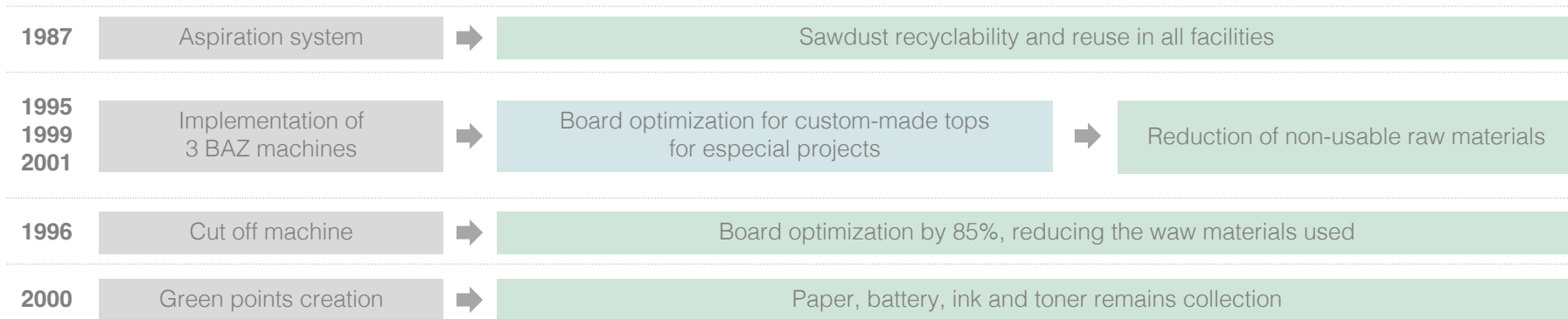
Several requirements are fulfilled within the Environmental Management System:

- Fulfillment of legal and voluntary requirements
- Training: the company provides procedures which assure that the workforce is correctly trained regarding environmental issues
- Operational control: operative procedures related to environmental issues
- Emergencies: procedures to show how to react in case of emergency or accidents regarding the environment

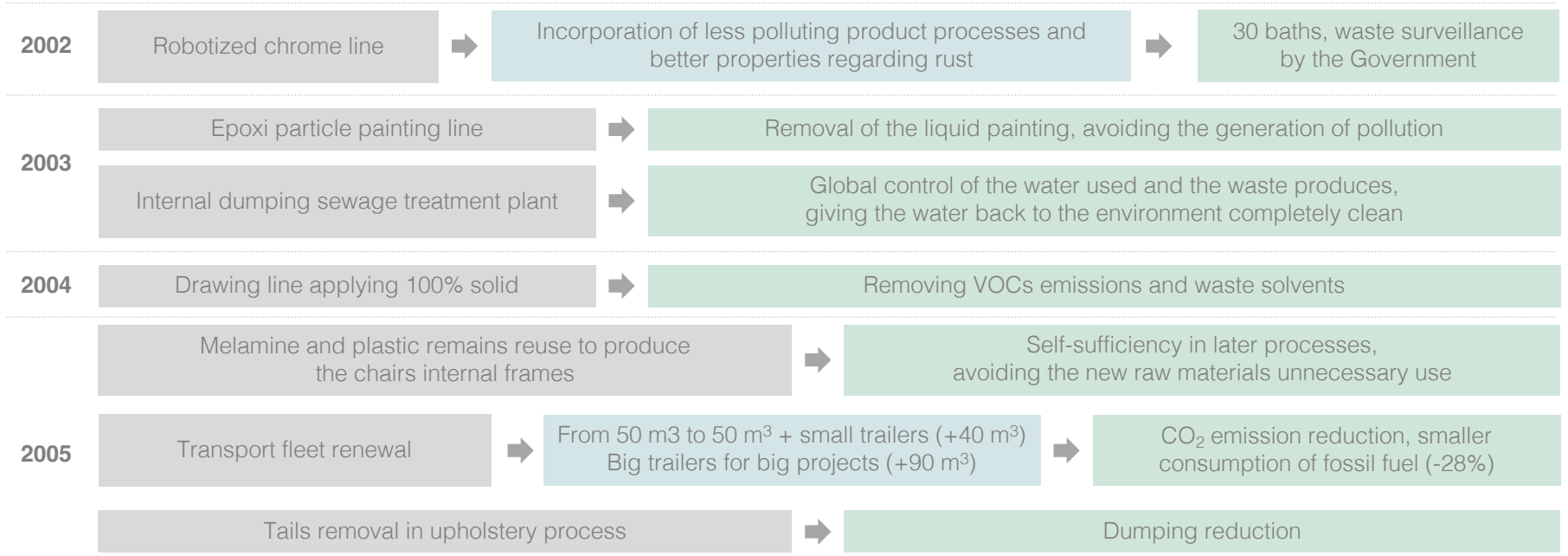
- Internal audits: the company plans internal audits to verify if the system is correctly implanted and follows the procedures
- Controls by the Chief Manager: the Chief Manager revises the Management System. The needed data to accomplish the revision are:
  - The results of the internal audits, as well as the corrective and preventive actions applied
  - The result of the fulfillment evaluation of the legal aspects and other requirements
  - Procedures fulfillment
  - Objectives and goals fulfillment
  - Improvement recommendations

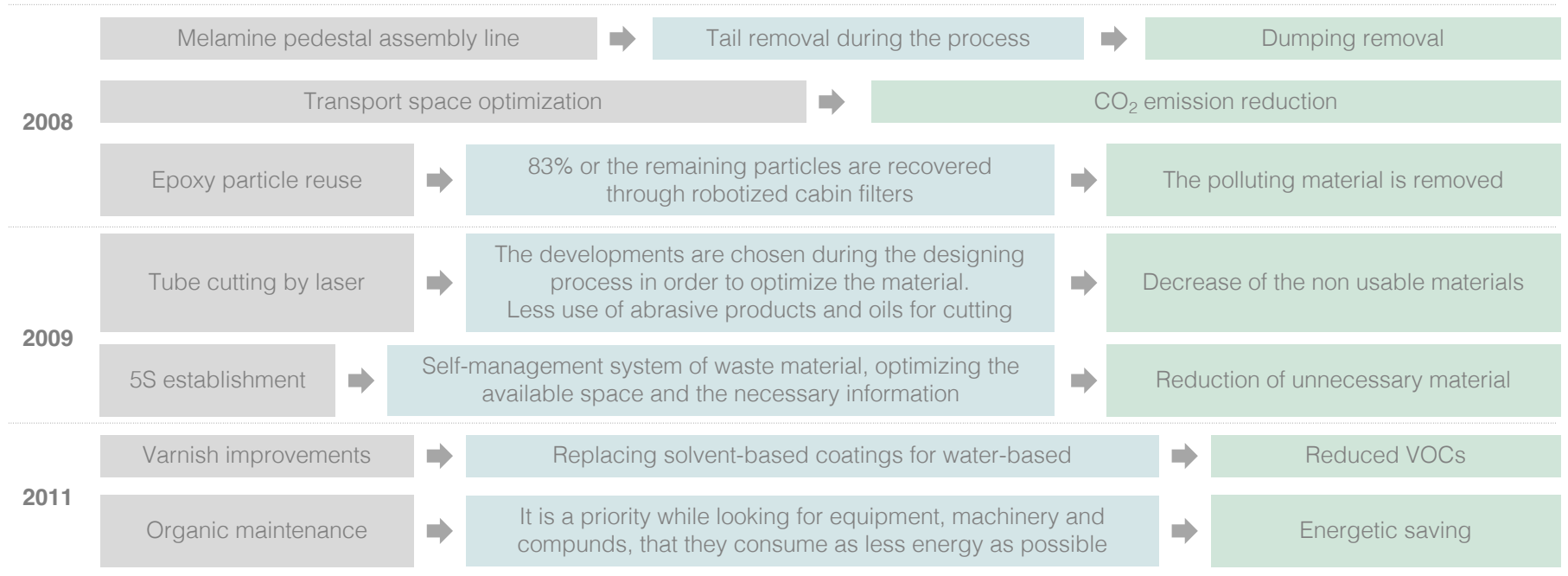
## Environmental improvements

Every year we implement improvements that help to take care and protect the environment. These progresses can come from the processes of industrialization, of new machineries, of changes in suppliers and collaborators, conceptions ecoambientales of new Products and other improvable factors to obtain the mentioned intention.

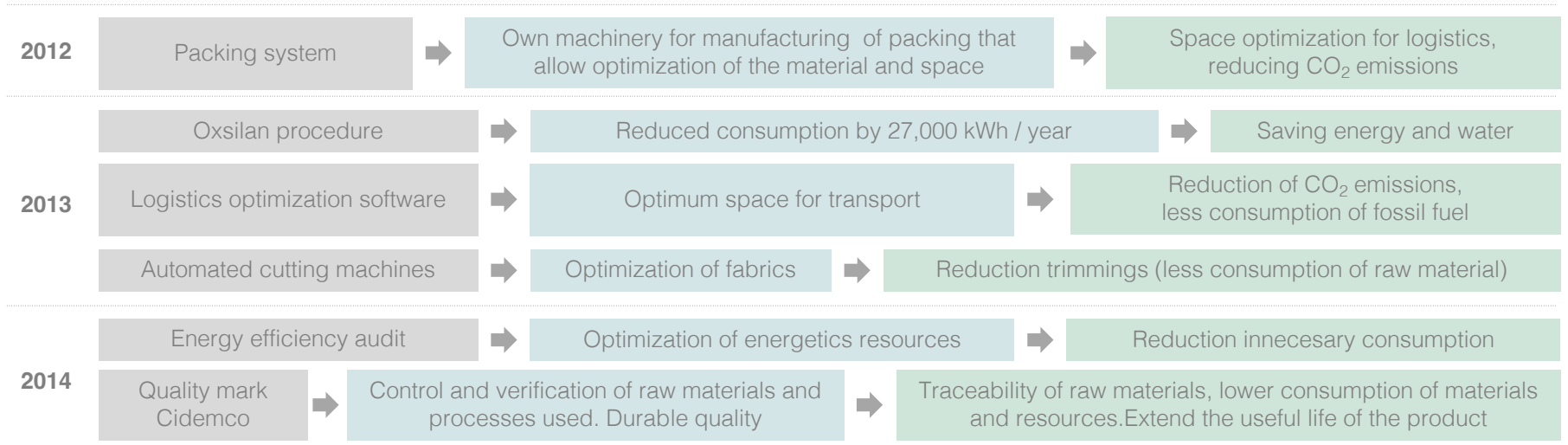


A. Production unity and process

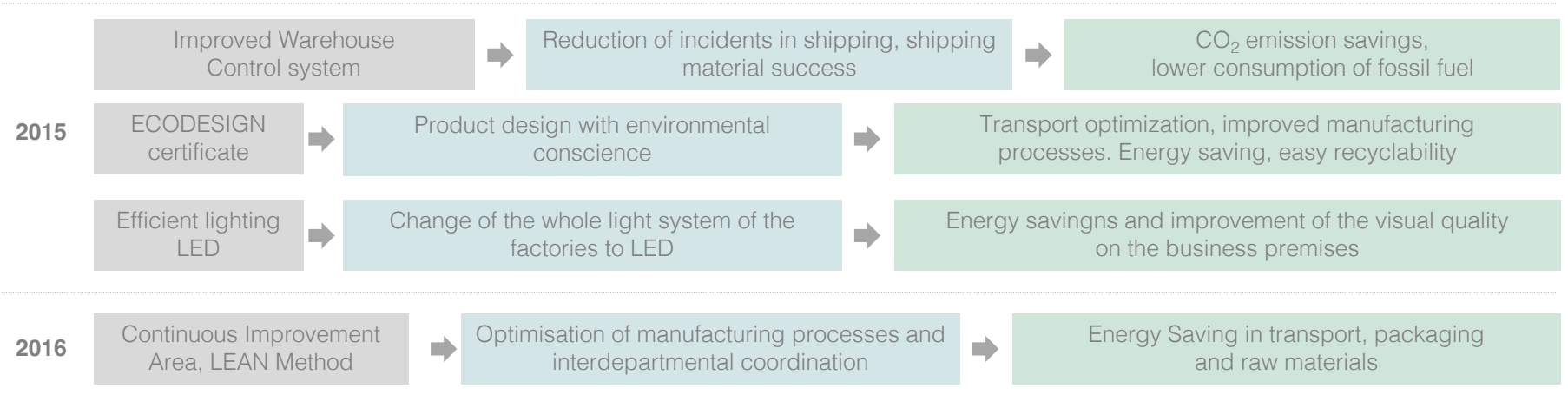


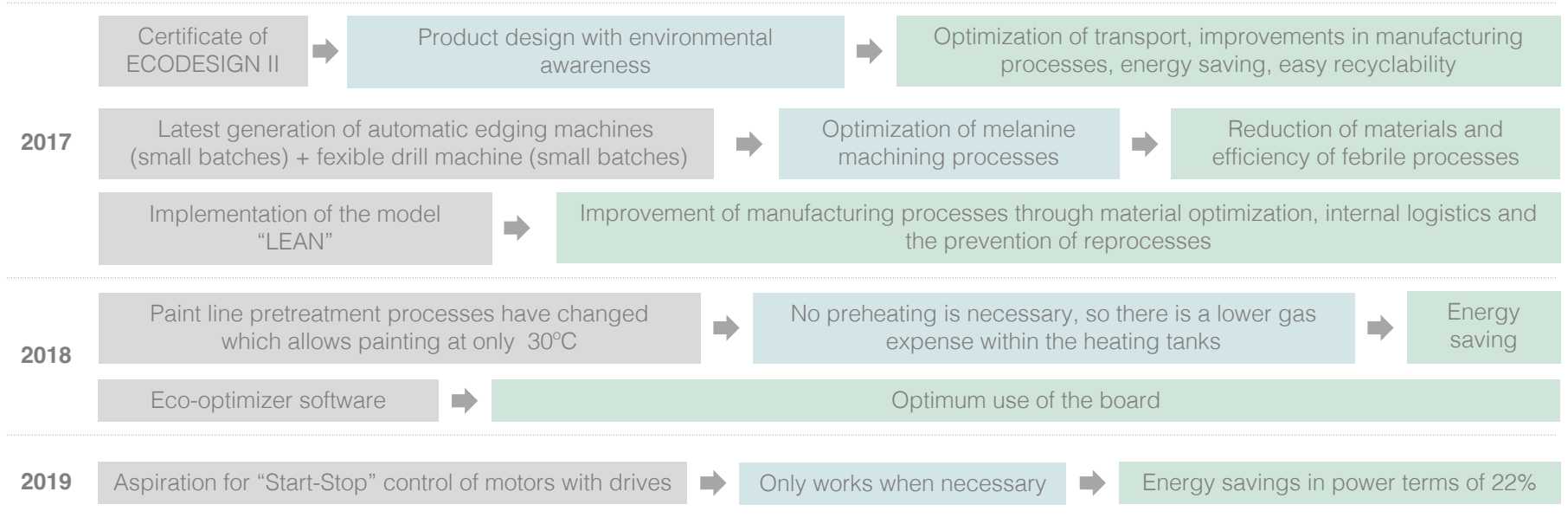


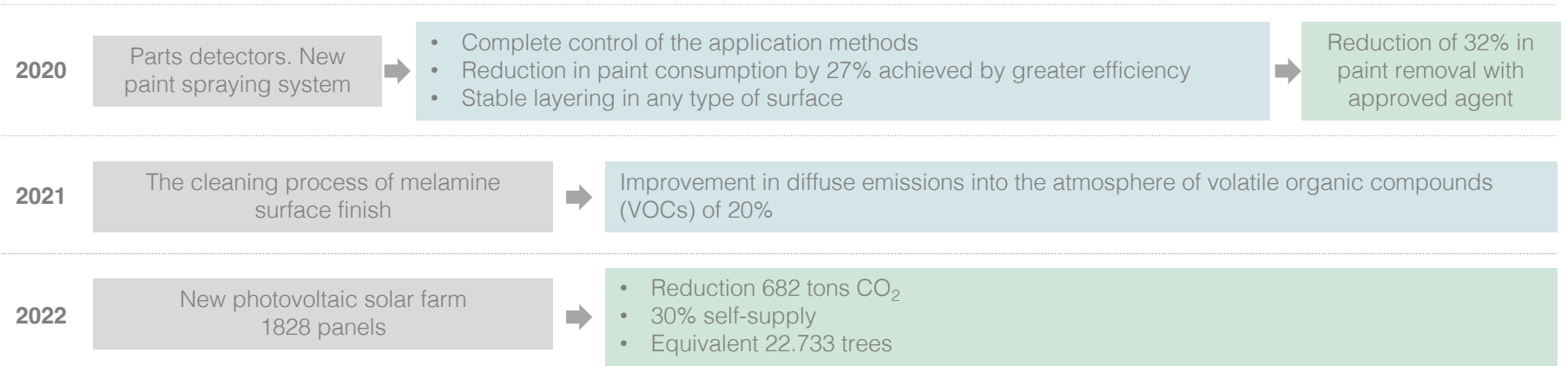
A. Production unity and process



A. Production unity and process

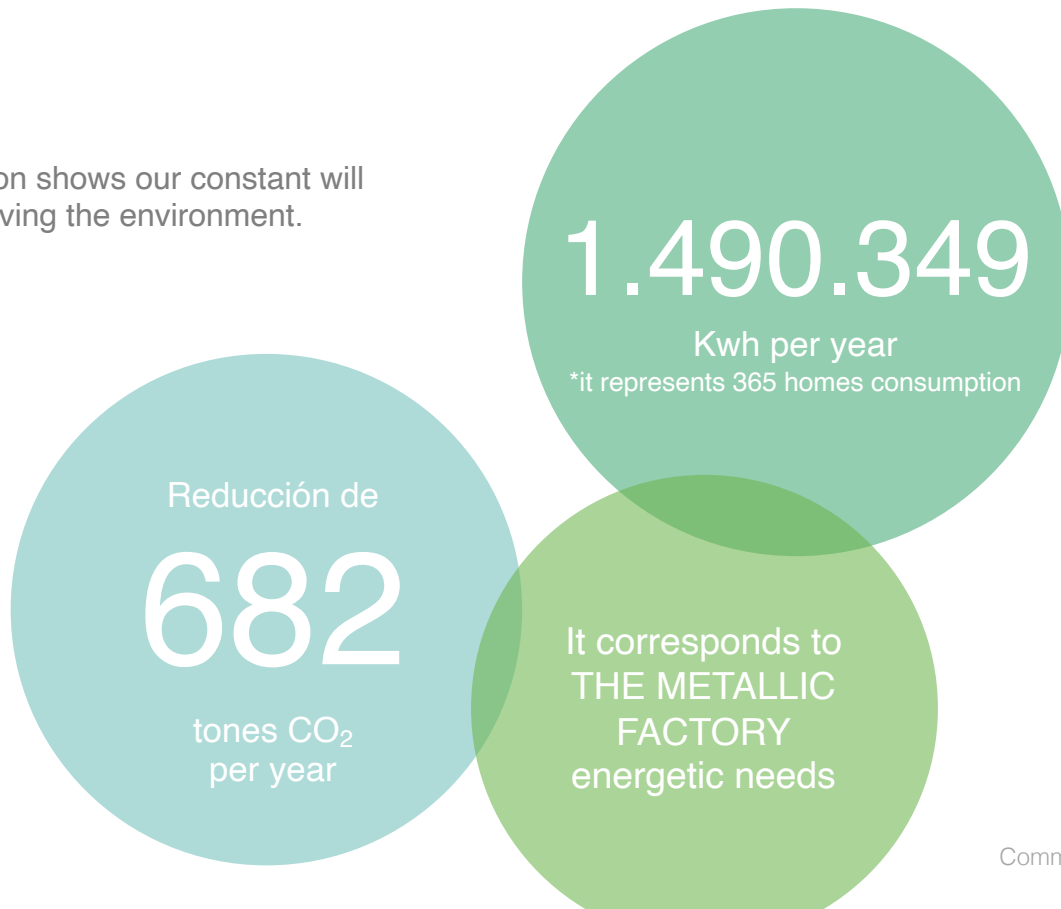








This action shows our constant will of preserving the environment.



#### A. Production unity and process

Grupo Forma 5 has installed 1.830 photovoltaic panels on 4.600 m<sup>2</sup> in order to make the most of the 3.400 annual hours of sun that Seville has.



We are proud of accomplishing all environmental and social requirements.  
Some concrete examples:



**Managing waste, a new life for it...**

What can we do with plastic and other waste remain?

We promise to give a new life to our waste remains, sending them to especial centers and organisms where they are separated and picked to be reused.



**The forest, our planet's lung...**

Managing forests and replanting trees is a way to make sure that our planet breaths better. For this reason, our woods are certified with the PEFC. The forest is part of the offices, the tops, the work surfaces... Therefore Grupo Forma 5 uses high density panels with less chemical agents.



**The water...**

Water is life. Evacuated water is therefore controlled and purified through a sewage, which enables us to reuse part of the water. Only after suffering these processes, water goes back to the rivers.

A. Production unity and process



People...

Protecting people, taking care of our staff and of those who indirectly work with us. Making sure that they work in good conditions is protecting the best value a company has. Therefore, we have the OHSAS 18001 safety and health at work.

The social dimension is one of the most relevant sides of the SUSTAINABILITY concept, together with the environmental and economic ones.

Our ergonomics and dimensionality fulfillment policy also guarantees an optimal and healthy material for our users.

The road is still long and the work done is the effort of all of us, through small civic actions. We imply our staff for this cause, so they get conscious and apply the procedures during their daily life.

We study production processes to optimize them and our goal is to reduce the energetic consumption and dumping.





# ISO 14001 Certification

Grupo Forma 5 has the ISO 14001 certification. This logotype is essential, as it gathers our entire philosophy.

In 2003 Grupo Forma 5 changed all management and production processes, paying especial attention to the environment, managing waste and the rejection supervision.



## ISO 9001 Certification

Under the ISO 9001 certification, Grupo Forma 5 assures a high quality production and service within a continuous improvement process.

This certification allows us to make periodic validation tests of our products, fulfilling the exigent established terms.

We should not forget the important and relevant connection between the ISO 9001 and the ISO 14001, as the goal of getting an INTEGRATED management system is part of the present company commitment.



## B Committed to our products

Our series since 2005 have been created with the collaboration of sensitive to the environment designers according to the environmental management system provided by the ISO 14001 and ISO 14006 environmental management process design and development.

As a responsible industrial company, Grupo Forma 5 has systematic criteria related to the environment: raw materials, easy to assembly and disassembly, providers, packings, product waste...

From the conception to the final step of the products life cycle, we study during each phase all appropriate services to reduce and even remove the environmental impact.

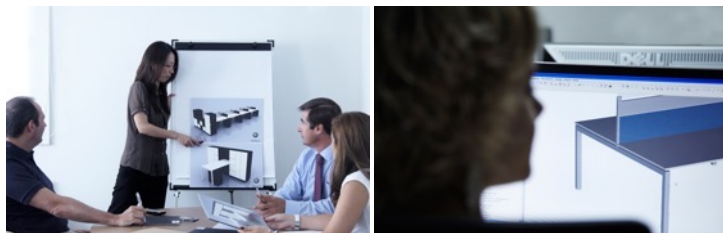


## A concept adapted to the products

### Research and development

All our products are developed based on durability: quality, easy assembly and the possibility of reuse, which prolong the product life cycle, reducing the environmental impact.

In Grupo Forma 5 we take very seriously the respect for the environment and for this we form the product development team at Ecodesign.



### Materials

We choose all raw materials considering the strictest environmental laws:



- Particle panels from reforestation certified woods (100% PEFC)
- Use of vinyl glue (water based)
- Melamine resin according to the terms
- Epoxi/ polyester powder painting for metallic elements for VOCs free metal elements
- Hydro soluble dyes for woods
- E1 boards (Norma ENE-EN 717-2) with low content in formaldehyde
- OEKO-TEX certificated fabrics
- Providers certificates of % recycled raw materials use
- VOCs free stickers



# Certification and quality

The TECNALIA certification for all our products guarantees our clients and distributors our respect for the terms. In addition, we also submit our products masonry to Biomechanics and Ergohealth studies carry out by independent organizations where we demonstrate the ergonomic and functional qualities of the product.



## B. Committed to our products

tecnalía Inspiring Business

Informe Nº: 13\_01915

Fecha de recepción: 10.06.2013  
 Fecha de inicio: 17.06.2013  
 Fecha de finalización: 10.06.2013  
 Fecha de emisión: 20.06.2013  
 Página 1 de 2

Cliente: SILLÓN DURL S.L.U.  
 Contacto: JUAN JOSÉ GARCÍA  
 Dirección: C/ ACUESCUDO 13-14  
 46105 DOS HERMANAS (SEVILLA)

Referencia: SERIE KOOL  
 Características: Silla concebida de 4 patas de acero y sin reposabrazos  
 Norma: UNE-EN 13373:2007 (Nivel 3)

Elemento	Norma/Parámetro	Medicinas de ensayo	RESULTADO
Requisitos Generales de Seguridad	UNE-EN 13373:2007 (Nivel 3) art.5.2		SATISFACTORIO
Vuelco delantero	UNE-EN 1202:2000 art.6.2	Puente vertical (N): 600 Puente horizontal (N): 20	SATISFACTORIO
Vuelco trasero	UNE-EN 1202:2000 art.6.4	Puente vertical (N): 600 Puente horizontal (N): 140	SATISFACTORIO
Vuelco lateral	UNE-EN 1202:2000 art.6.4	Puente vertical (N): 600 Puente horizontal (N): 20	SATISFACTORIO
Ensayo de carga estática sobre el asiento y el respaldo	UNE-EN 1728:2001 art.8.2.1	Carga en el asiento (N): 3000 Nº ciclos: 10	SATISFACTORIO
Ensayo de carga estática sobre el brazo izquierdo del asiento	UNE-EN 1728:2001 art.8.2.2	Carga aplicada (N): 3000 Nº ciclos: 10	SATISFACTORIO
Carga estática vertical sobre el respaldo	UNE-EN 13373:2007 Anexo A.2	Puente aplicada (N): 900 Nº ciclos: 10	SATISFACTORIO
Ensayo de fatiga sobre el asiento y el respaldo	UNE-EN 1728:2001 art.8.7	Carga en el asiento (N): 1000 Nº ciclos: 200.000	SATISFACTORIO
Ensayo de fatiga sobre el brazo delantero del asiento	UNE-EN 1728:2001 art.8.8.1	Carga en el asiento (N): 1000 Nº ciclos: 100.000	SATISFACTORIO
Ensayo de carga estática sobre las patas delanteras	UNE-EN 1728:2001 art.8.12	Carga en el asiento (N): 1800 Nº ciclos: 10	SATISFACTORIO

lmana Ingeniería biomécanica

UMANA Centro Sanitario de Análisis Biomécanico

C-36-001498

CERTIFICADO DE CALIDAD BIOMECÁNICA

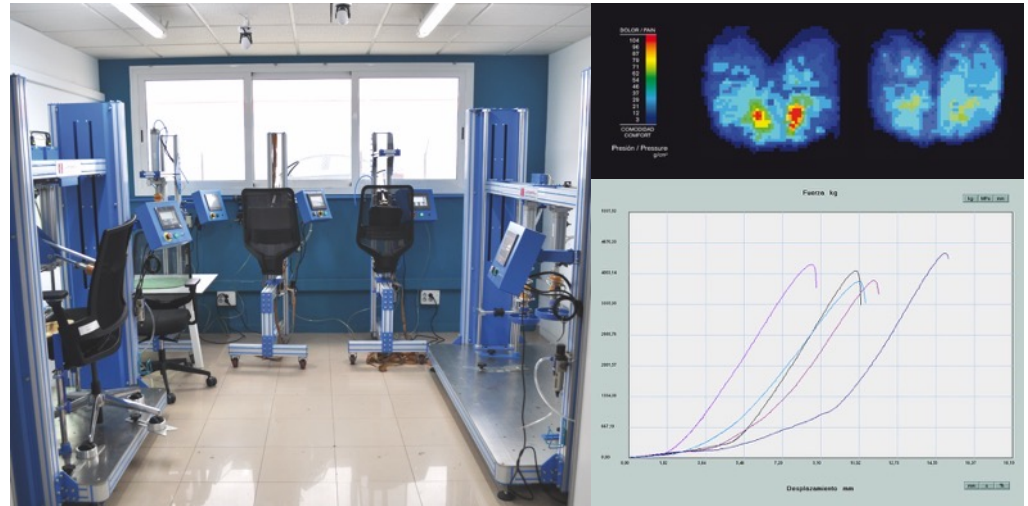
ANEXO TÉCNICO  
 Valoración detallada de la calidad biomécanica de la silla SENSE (FORMA 5)

Parámetro Biomécanico	Valor	Explicación de resultados
Indicador Técnico	Adelante	<ul style="list-style-type: none"> <li>El artículo presenta un buen comportamiento de la parte superior de la estructura de la silla, en el primer nivel de rigidez medida de acuerdo al EN 13373.</li> <li>El artículo presenta buena resistencia del rango de confort, y disminuye la resistencia a medida que el usuario se inclina.</li> <li>El artículo presenta un buen comportamiento dentro del rango de confort de acuerdo al EN 13373.</li> <li>El artículo presenta buena resistencia dentro del rango de máxima confort, y disminuye la resistencia a medida que el usuario se inclina.</li> </ul>
Indicador Postura	Adelante	<ul style="list-style-type: none"> <li>El artículo presenta un comportamiento adecuado para el primer nivel de rigidez medida de la silla, en un primer momento medida de acuerdo al EN 13373.</li> <li>El artículo presenta un buen comportamiento dentro del rango de confort, y disminuye la resistencia a medida que el usuario se inclina.</li> <li>El artículo presenta un buen comportamiento dentro del rango de máxima confort, y disminuye la resistencia a medida que el usuario se inclina.</li> </ul>
Indicador Respaldo	Adelante	<ul style="list-style-type: none"> <li>El artículo presenta un comportamiento adecuado para el primer nivel de rigidez medida de la silla, en un primer momento medida de acuerdo al EN 13373.</li> <li>El artículo presenta un buen comportamiento dentro del rango de confort, y disminuye la resistencia a medida que el usuario se inclina.</li> <li>El artículo presenta un buen comportamiento dentro del rango de máxima confort, y disminuye la resistencia a medida que el usuario se inclina.</li> </ul>

Our quality department has 11 people.

This department guarantees our clients and providers an optimal service, thanks to an efficient test methodology:

- Testing the products before the launching thanks to an internal test bench
- Controlling and revising that quality is constant during the whole production process until the installation
- Controlling the quality of providers and raw materials



## Life cycle analysis

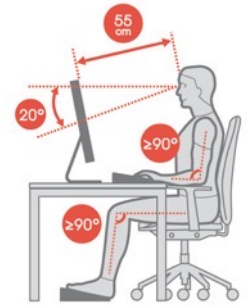
We guarantee the durability of our products due to:

The ergonomics, an adapted furniture...

Grupo Forma 5 strictly respects all terms and is part of several international normalization committees. The staff is important and ergonomics is the main parameter when the furniture is conceived. Respecting these terms, Grupo Forma 5 assures the user's welfare and the correct postures at work.

Quality, strength and security...

Grupo Forma 5 has been creating and producing furniture for almost 35 years. We are sure of our processes and this makes us guarantee all our series. The company has its own testing bench, managed by an engineer team. The laboratory tests the new products and controls the production by sampling. These controls guarantee the material optimization and the user's security.



## EPD Environmental product declaration

**Environmental Product Declaration** (EPD) is a standardized way of quantifying the environmental impact of a product, a material or a service. Declarations include information on the **environmental impact** in the life-cycle of a product (raw material – production – logistics - use - end of life) in accordance with the International Standard **ISO 14025**.

In Grupo Forma 5, we analyze our products from this point of view, to know the global warming, the depletion of resources that concerns our designs, the energy consumption of fossil or renewable resources at each stage of the process. In this way, we work as hard as possible to make ecological products and environmentally friendly.



## Recycled and recyclable materials

### The production process

The remains during the production process are mainly picked and recycled. A program optimizes the melamine boards when they are cut to avoid wasting raw materials. The knock reduction at the facilities is guaranteed during the whole production process. The machines and facilities are equipped with renewable filters to guarantee a longer life of the industrial oils used for machinery.

Wood and melamine remains are recovered and reused by 100% to produce the internal chair frames. The painting line is a modern facility with the latest generation, which allows the painting recovery for reuse. Due to the UV drying system, this new facility has generated a big painting and solvent saving and remains have been especially reduced.

We have all certificates from our providers, which assure a high percentage of recycled material at raw materials, as well as information provided by Grupo Forma 5, where it is said that percentage of the product is recyclable and it also talks about the disassemble possibilities and product waste of the products.



B. Committed to our products

Our products are easily demountable and all compounds can be 100% recycled: melamine, plastic, metal, fabric and packing.



Our main raw materials are: melamine (80% of the board particles are recycled and the rest come from certified woods), plastics, metals and fabrics, which all come from certified providers.

All processes have been certified by the environmental quality ISO 14001 terms.



## C Packing and logistics

### Continuous improvements

## Space optimization system and recycled packing system

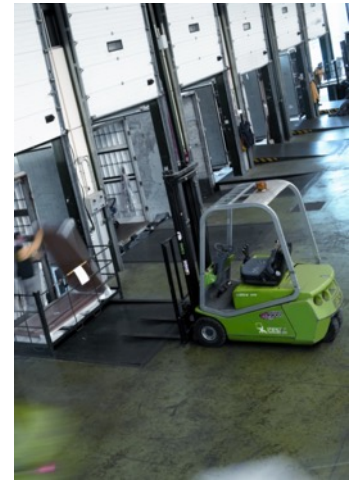
80% of our packing comes from recycled cardboard and plastics. Our providers pick the polystyrenes we do not use. The packing remains are sent to a Clean Point, where they are picked and recycled.

Depending on the project and the accessibility, we adapt our packing and bulks to minimize the remains and optimize the transport (pallets, flat pack...)

Our Logistics Department analyses the delivery cycles and adapts the transport volume, depending on the project volume. Thanks to this analysis, the minimum cubic percentage is 90% and the actual average is 95%. This way, we reduce the CO<sub>2</sub> emissions.

The deliveries are made directly at the final client in case of the European market, following an optimal itinerary in order to optimize distances.

The truck fleet is arranged in order to make the most of their capacity, adding trailers when possible and according to the client conditions and establishing unloading routes to reduce the travelling time. We try to reduce the CO<sub>2</sub> emissions and the fuel consumption by using this system.



*"Conservation is a state of harmony  
between man and earth"*

*Aldo Leopold*





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Forma 5

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[forma5.com](http://forma5.com)

[espattiobrand.com](http://espattiobrand.com)