

METAL

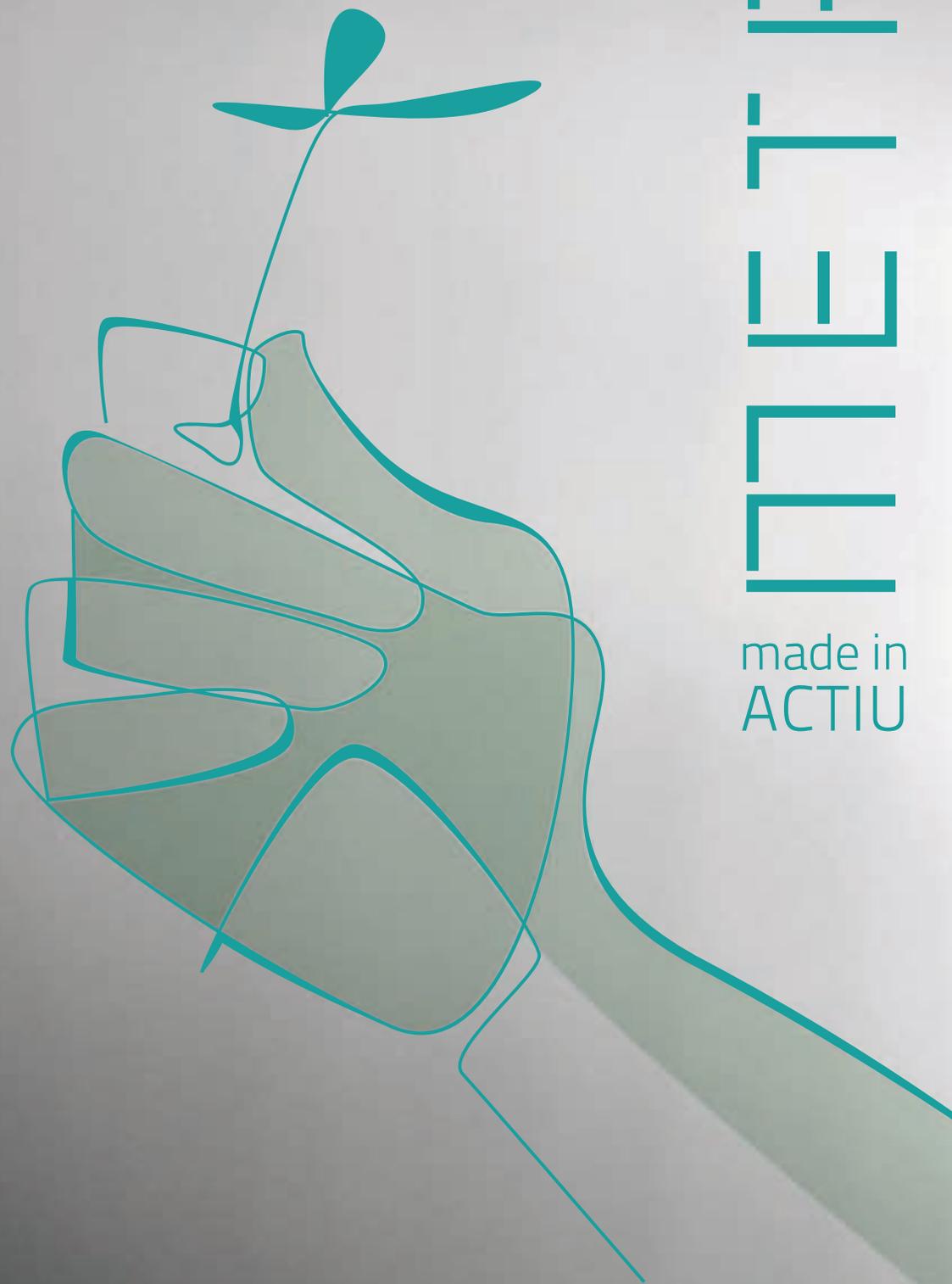


POR FAVOR RECICLAR CUANDO QUEDE OBSOLETO
PLEASE RECYCLE WHEN OBSOLETE
S'IL VOUS PLAÎT, MERCI DE RECYCLER
WENN NICHT MEHR AKTUELL, RECYCLEN



ACTIU

COD: 9906-IN - 05-10 - 1ª



METAL

made in
ACTIU



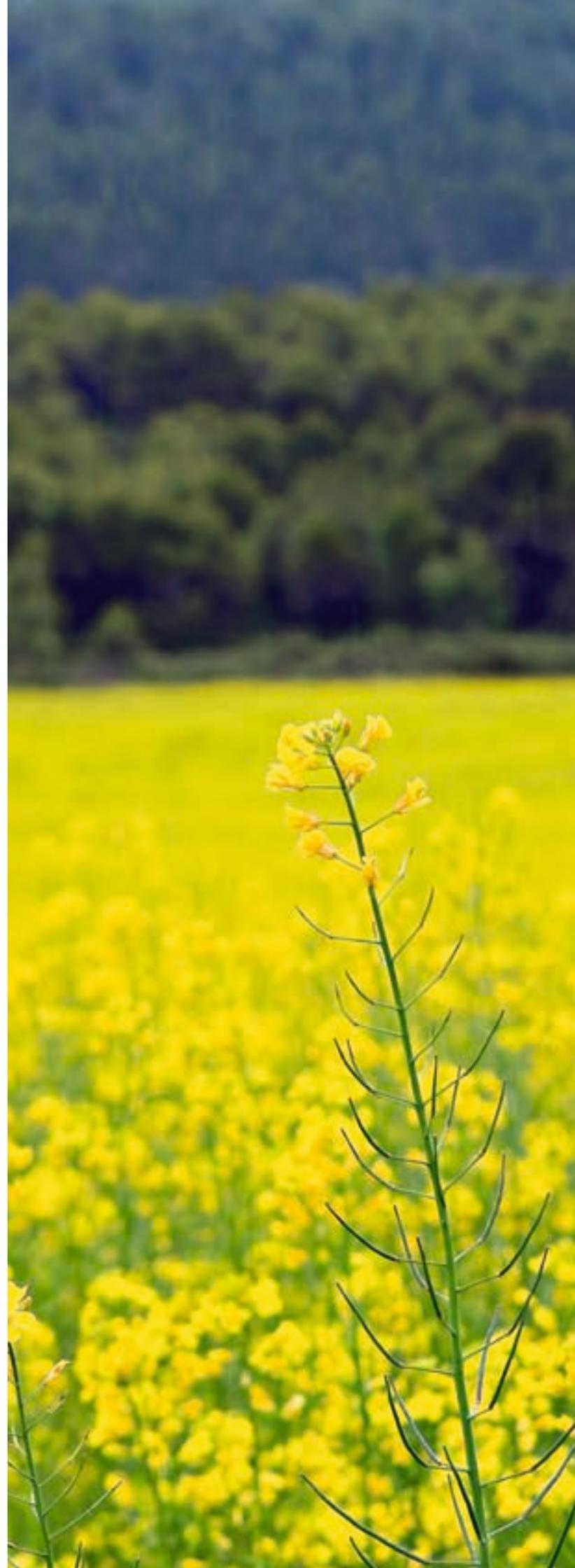
ACTIU

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made in
ACTIU



Our responsibility is to work to make
industrial production sustainable.
Yours, demanding more every day and choosing in consequence.



Welcome

Welcome to the new workspaces.
 Welcome to efficient and lasting design.
 Welcome to our commitment to the future.



We manufacture metal
 WE MANUFACTURE THE FUTURE

Welcome to sustainable metal production.

Welcome to a new production process.

Where sturdiness and stability combine with optimum design and perfect functionality.

Where the raw materials are treated with an eye to the future.

Because we manufacture steel products while saving as many natural resources as possible.

Because we invite you to enjoy these new tools for a very long time.



Quality

QUALITY IN ALL SENSES

Convenient and open. We design furniture that can satisfy all your needs, compatible with your environments and helping to construct workspaces that modern companies need: more flexible and comfortable, richer and multifunctional.

Stable and solid. Furniture with the strength of steel. Without giving up on precision finishes where every detail is treated delicately. To achieve this, we use cutting-edge technology.

Ergonomic and painstakingly finished. So that a strong material is also easy to use, with precise shapes and smooth to touch.

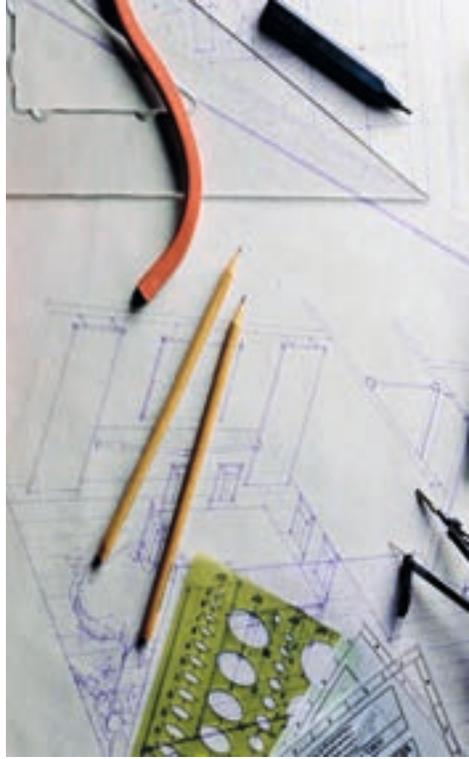
Unbeatable and long lasting. We carry out the whole production process at our Castalla plant. We are in complete command. We optimise every step. This and our major investment in machines and installations allows us to offer competitive prices without giving up on design and quality.

Easy to assemble, dismantle and restore. So that it can be transported in the minimum possible space. So as to facilitate the on-site installation process without causing too much fuss. To restore and replace parts in case of accident. So that it can be easily altered in the likely case of the needs of your company changing as well.



Flexibility

SOLUTIONS FOR ALL NEEDS

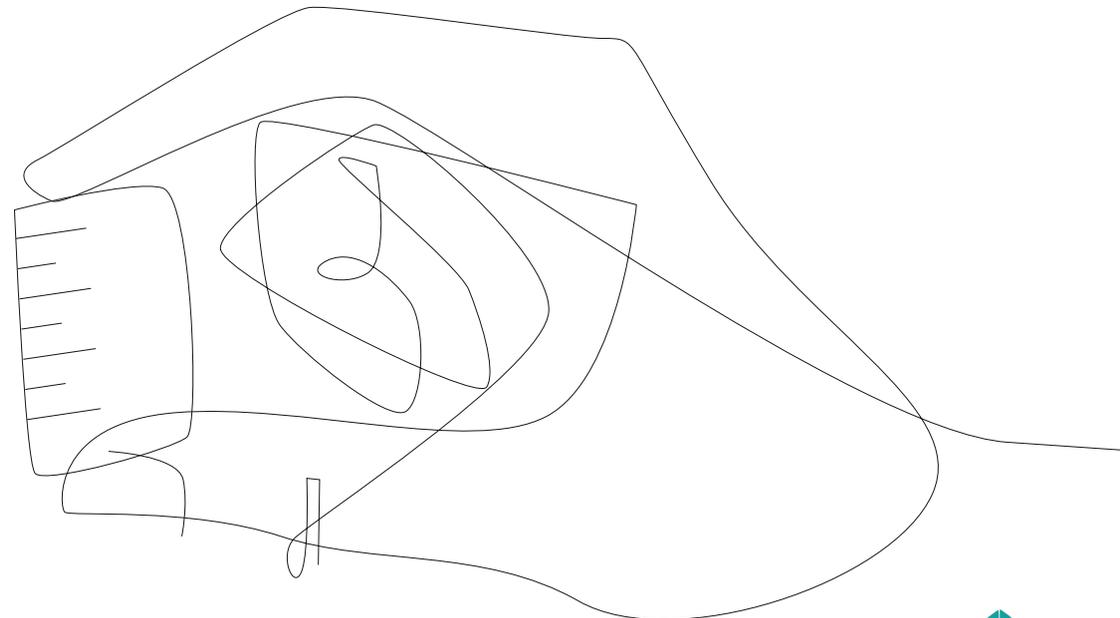


When businesses have specific needs, we create multidisciplinary teams to work together with them: this means that we can analyse more efficient, cost-effective and higher-quality solutions, creating **models tailored** to the needs of each project. We also collaborate closely with business groups that need personalised projects tailored to the criteria of their **corporate aesthetics**. In both cases, once we have defined the details, we use our ability to industrialise the processes, which are often carried out by hand, with guaranteed **quality and delivery** by the deadlines agreed.

Growth, progress, improvements... what does the future hold? We live in uncertain times. That 's why we create products designed on the basis of **adaptability**. Our furniture is easy to use today and able to satisfy the needs of tomorrow. Products made from steel, solid and strong; long-lasting products.



Counter designed in collaboration with AENA for the terminal at Alicante airport (Spain)



SUSTAINABLE MENTALITY



ECO DESIGN

We take sustainability into account from the moment we conceive a product, from the very first ideas and sketches. Because we know that the only way to manufacture ecologically is by taking it into account from the very start of the project.

When we choose the **materials**, we always use those that are recyclable. Here, steel is an excellent starting point.

During **manufacturing**, we aim to optimise our processes to save raw materials and natural resources (basically energy and water).

We reduce the amount and volume of **packaging** to the minimum, using cardboard made from recycled materials.

In order to ensure that the **transport** of our products causes the least amount of environmental impact possible, we are committed to designing packaging that optimises and improves loads.

We design every product to be easy to use, simple to maintain and easy to clean with non-polluting products (soap and water). Our products allow for damaged components to be replaced, to ensure a long, useful life.

At the end of its useful life our metal furniture is **99% recyclable**. To make this possible, we design structures made of a limited number of components, most of them recyclable; where the joints are only fixed when they are of the same material.

NON-DESTRUCTIVE MANUFACTURING

We industrialise metal responsibly



LOOKING AFTER RESOURCES

We use as few raw materials as possible for our metal products.

We use as little **water** as possible when manufacturing this furniture. When we have to, we reuse it to minimise our consumption.

We are major producers of clean **energy**, as a large number of solar panels cover the roofs of our facilities. Despite this, we have optimised our manufacturing processes to use only the necessary solar energy.

MINIMISING IMPACTS

Our metal plant has been designed to achieve **zero waste** water emission.

Metal furniture is produced **without the Emission of CO₂** or VOC 's (Volatile Organic Compounds), very frequent with other paint treatments.

We exercise **total control over the solid waste** produced in our production plant, so that it can be recycled. The little waste that can 't be reused is disposed of in a controlled way.



Machining process

MADE IN ACTIU

We are committed to taking full control of the manufacture of this furniture in our own plant. A new machining process has been made possible because we have:

A highly-qualified technical team.

Cutting-edge machinery.

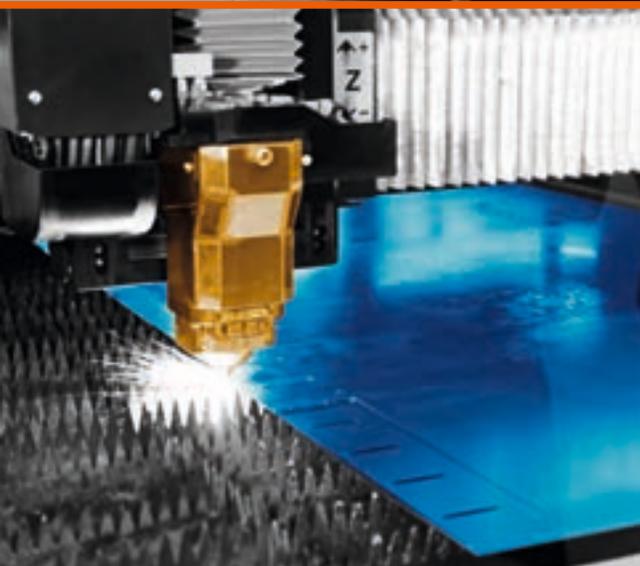
The fact that we manufacture ourselves allows us to offer our clients a number of advantages:

We are flexible enough to produce large scale and tailored projects.

We can ensure constant, certified quality.

We can self-supply and optimise the resources we need for manufacture.

We reduce our carbon footprint at every stage of production.



Steel

We use 0.8 mm thick steel sheet, depending on the needs of each project or the requirements of your particular product, depending on its functionality.

The major environmental advantages of this raw material are its durability and the fact that it is easy to recycle.

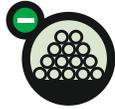
Icons showing the advantages for each process



No dumping



Reduce dumping



Reduce raw materials



No gas emissions



Reduce gas emissions



Enhanced health and safety at work



Reduce materials used



Improved reuse of materials



Save on time



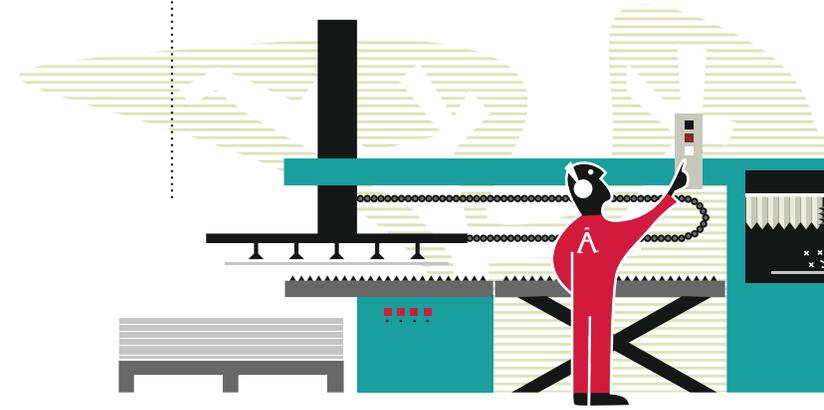
Energy savings



Automated steel sheet

Loading:

Less effort and increased safety.



Optimisation

Maximum use made of the steel sheets. The surplus is collected for reuse.

The cutting process

The combined use of laser technology and punching when cutting the steel provides precision finishes.

As there are no burrs, we avoid later treatments, saving energy resources and raw materials.

The hydrogen needed for cutting the metal is generated at our own plant just before it is used.

This means that: We avoid having to transport it.

We obtain significant energy savings.

We don't store the gas on our premises.

Other ecological advantages compared with other cutting processes used in metallurgy include:

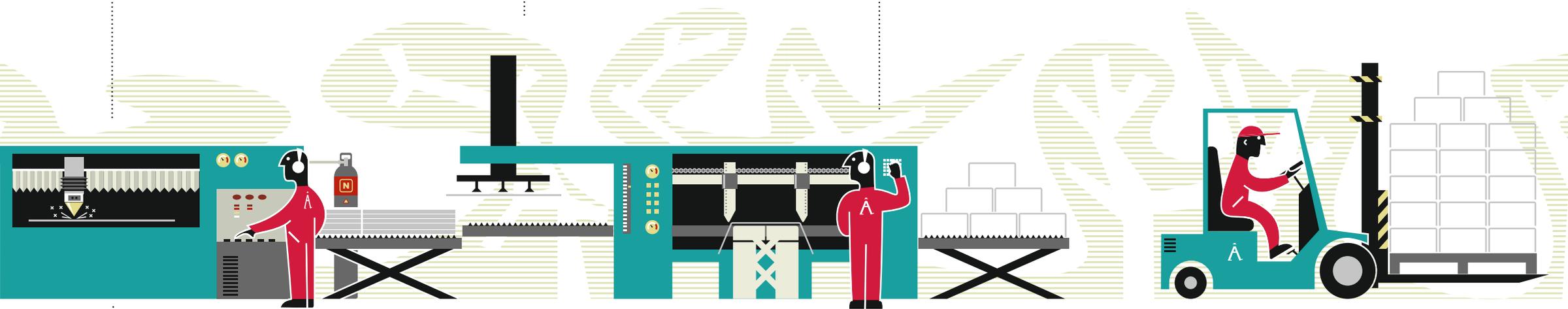
Improved resting times, doing the same work in less time.

No additives needed for the process, meaning that we don't generate waste.

The steel dust generated during cutting is collected and compacted for recycling.

Folding

This process is carried out by multiple cutting-edge folders and pressers that provide production advantages by simultaneous folding at both ends of a part. This is exceptionally accurate and allows us to be very versatile when choosing types of folding. This allows our designers to use their imagination, researching and developing more efficient, exclusive and differentiated models.



Up to 40% of world steel needs are currently satisfied with recycled materials.

Production time is improved and the number of cycles increased, producing more with the same energy resources.

Welding

The fact that we only weld parts made from the same type of steel means that the material can be reused at the end of its useful life.



We use contact welding with no added weld material. This means we don't use gases or materials.

This allows us to join the metal causing less damage to the environmental while still obtaining excellent finishes.

We also use TIG welding with added weld material. Used for those cases where the joints must withstand greater stress, applied at points that are not visible.

The overall automation of the process provides more flexible production.



Semi-automatic robot welding process: more accuracy in less time and less energy consumption.



We emit up to 34% less CO₂ by choosing resistance and TIG welding instead of The more common MIG (Source Ecoinvent, Edip 2008)



We adjust manufacture to meet demand, optimising the use of material and energy resources.



Painting

Compared with traditional industrial painting processes that can be highly polluting, the Actiu plant has minimum environmental impact. Powdered paint is deposited by polarisation and compacted by temperature.

Advantages:

The paint is applied incredibly evenly, allowing us to be some 15 to 20% more efficient in the use of materials.



We make use of up to 98% of the paint. The remaining 2% is collected for making other paints.



Our paints are free of VOCs (volatile organic compounds), dangerous air pollutants.



We reuse all the water used in the process, achieving zero wastewater dumping. We also help to avoid dumping by an innovative nanotechnology-based pre-treatment that requires less heat and therefore less energy consumption.



Recovering residual heat allows us to obtain energy savings of 30%.

Cardboard packaging

We only pack our furniture when it's ready for dispatch. That's when we decide how we're going to send it:

If it's a small order, all the parts needed for a single item are sent in one box.



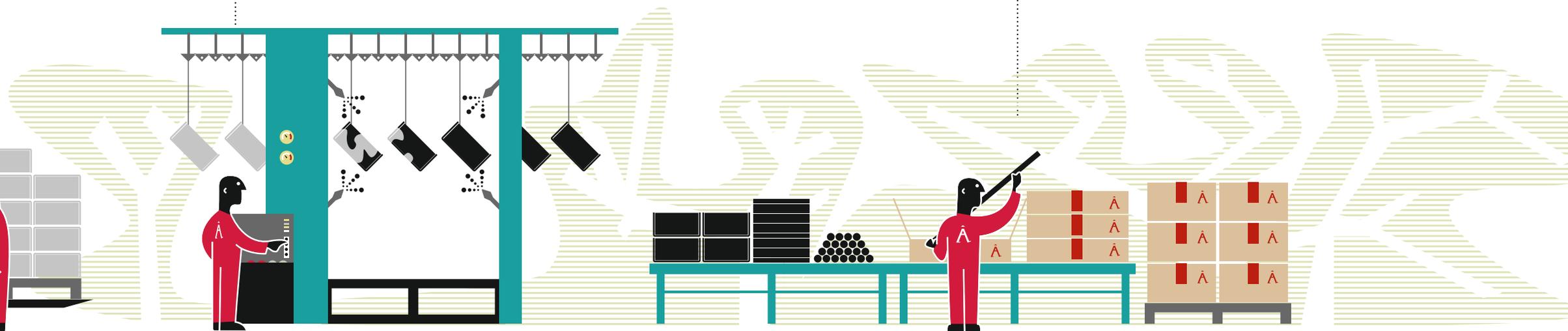
For larger orders, we protect the parts and send them together on pallets to eliminate packaging and make them easier to assemble when they arrive.



We only use recycled cardboard made from 99% recycled materials for our packaging.



We use solvent-free, water-based ink for marking.



Paint, an eco-laboratory of ideass

At Actiu, we have converted our paint plant into a laboratory where we research materials and processes together with our collaborators. Together, we use our imagination to obtain more stimulating finishes by studying and finding new formulas to make sure the paint section of the industry has less environmental impact.

Quality control



Painting facilities



We have made a major effort installing a pioneering painting plant, able to obtain maximum efficiency at zero environmental cost.

We have made a major effort installing a pioneering painting plant, able to obtain maximum efficiency at zero environmental cost. This allows us to apply:

Epoxy powder electrostatic coatings using 2nd generation polyester bonding resins free of TGIC (Triglycidyl Isocyanurate).

Degreasing treatments and application of nanoceramics, using cutting-edge technologies such as nanoceramics, which improve the adherence of coatings and provide greater durability.

Precise control of thickness, with a standard thickness of 90 microns upwards.

The results of applying these technologies are:

It can be adapted.

Development of personalised finishes.

More corrosion-resistant products.

Silk-texture, anti-fingerprint finishes.

Easy cleaning and maintenance.

The following are some of the environmental advantages of the plant:

We reduce the consumption of energy and natural resources.

We are self-sufficient with regards to water.

We achieve zero dumping.

The waste generated is compacted solids, allowing re-use.



Painting process

Painting line

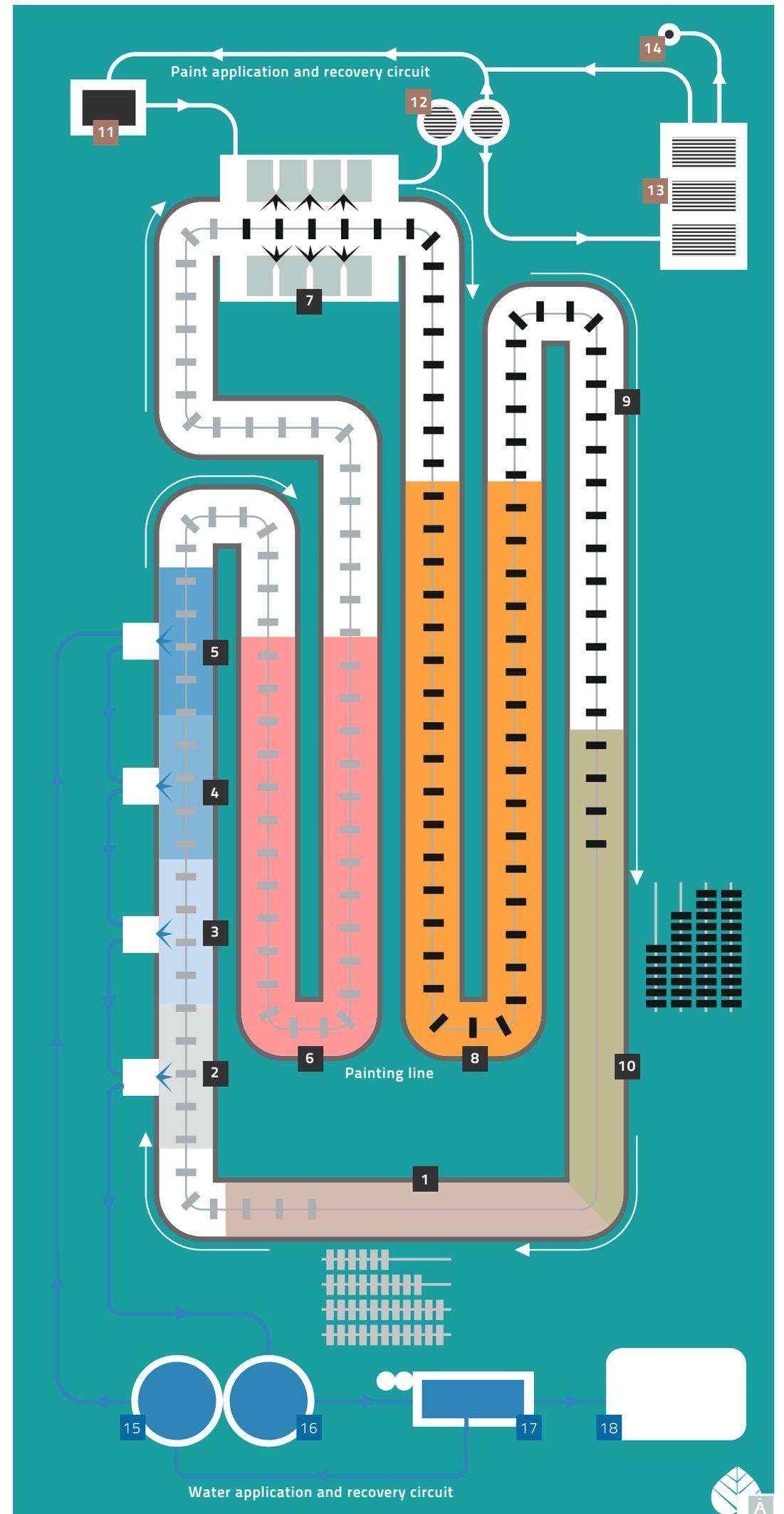
1. Parts loaded.
2. Pre-washing of steel to remove the protective grease and any accumulated dirt.
3. Rinsing.
4. Prior nanotechnological anti-corrosion, anti-fingerprint and anti-bacterial treatments. Prepare the metal to achieve greater uniformity. It also allows us to offer users a finish with maximum durability that is easy to clean with soap and water.
5. Fixing of the treatment.
6. Drying oven.
7. Powder spray painting. This work is carried out in a booth equipped with powerful suction pumps that recover any paint particles that have not adhered to the metal.
8. Polymerisation in the oven. Fixes the paint, making its surface extremely strong and its colour very stable.
9. Part cooling.
10. Material unloading.

Paint exploitation circuit

11. Main paint tank. Sends the material to the painting booth. It receives both new material and recovered paint powder.
12. Initial recovery tank. All the excess material pumped from the painting booth is collected. Here the largest particles that are already reusable are separated by gravity and sent to the main tank.
13. Secondary filtration plant. The paint particles selected are filtered again to recover the viable ones.
14. Residual tank. The remaining paint (2% of the total) that cannot be used to treat our products is collected. However, it is used to manufacture other, lower-quality paints.

Water treatment and recirculation circuit

15. Main water tank. Sends clean water to those sections of the line needing it (Stages 2 to 5). Receives water already used in the process once it has been purified and mains water is added to compensate for process losses.
16. Purification tank. Collects the water used on the painting line and separates the water from other elements by evaporation.
17. Second cleaning tank. Disinfects the water before sending it to the main tank for reuse.
18. Waste tank. Unwanted elements separated from the water are converted into solid waste using binders so that they can be taken to a specific treatment plant.



Maximum efficiency with large volumes

We have decided to deliver our steel furniture ready-to-assemble because we believe small packages have a multitude of advantages.

For storage:

Easy to stack.
Allows items to be identified easily.

Generic parts can be palletised together.

For transport:

Allows the load of each vehicle to be optimised.
Reduces fuel consumption.
Reduces CO₂ emissions.

At the destination:

Makes it easy to get to the installation site.
Improves the working conditions of those moving the load.
Reduces delivery incidents.



Reductions. This is an example of how we can reduce the carbon footprint when transporting 200x100 cm cupboard.

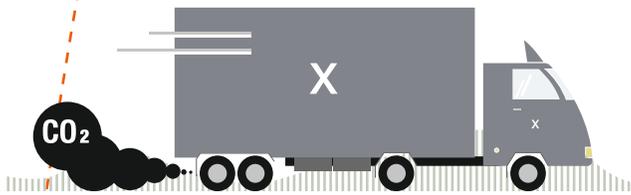


28 Tm. Trailer

48 assembled cupboards
166 ready-to-assemble cupboards

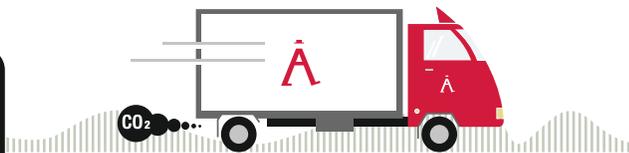
Optimisation. We achieve maximum transport efficiency by transporting the cupboards ready-to-assemble, taking maximum advantage of the load of each vehicle and reducing transport costs.

346%



30%

We reduce CO₂ emissions by 30%



Energy. When the load has to make Average journeys of 800 Km in Spain and 3,000 Km in Europe, choosing ready-to-assemble transport means a significant reduction in the fuel used. A saving that has 3 effects: it reduces the client's bill, reduces the use of energy resources and avoids harmful emissions.



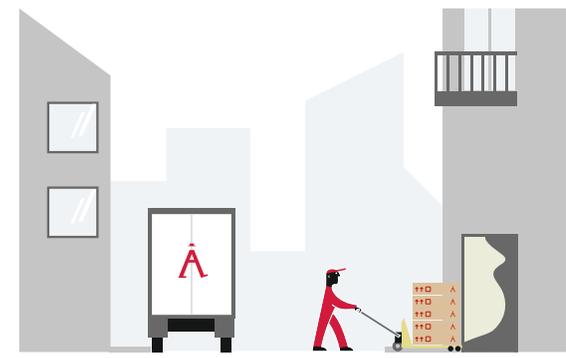
In the town:
Less pollutants in populated areas

Less traffic on urban roads

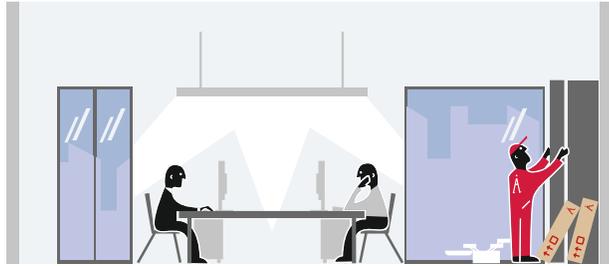
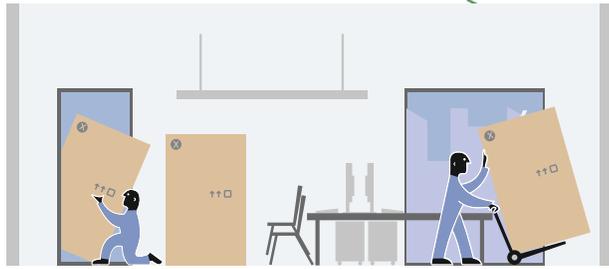
Accessibility. On arrival at the destination, faster unloading without the need for extra machinery (cranes).



At the destination:
Faster unloading.
No need for extra machinery (cranes).



Installation in the office



+ 7min.

Ergonomics. Once at the destination, the furniture is easy to assemble at its intended location. No special freight elevators or cranes. No interruptions to the working day. No damage to the corners of furniture or walls when moving inside the building.

Maintenance

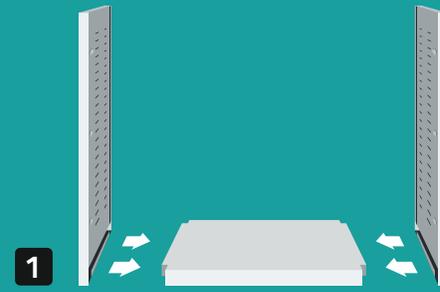


When in use:
Easy to replace
elements.

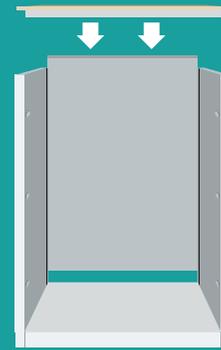
Longer useful life
of the product

Longer useful life. Damaged parts can be replaced when in use and Large volumes can be replaced without disturbing the working day.

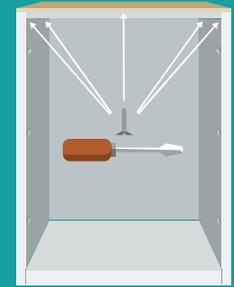
6 to 8 minutes to assemble cupboards



The sides fit into the base perfectly using a fitting tab.



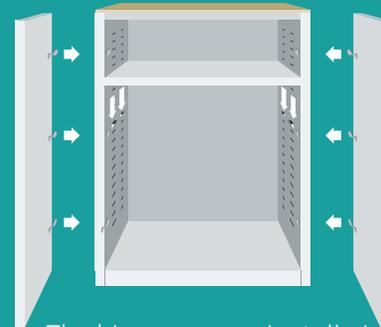
The bottom of the cupboard slides along a slot-guideway. The top is pres-fit.



Only 5 screws needed to secure the structure. The double side panel is fixed with clips

Folding Doors

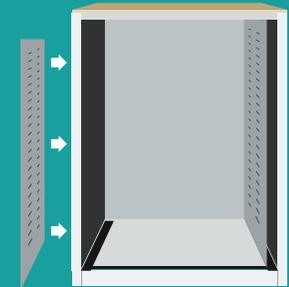
+ 6-7 min.



The hinges are preinstalled and are adjusted by pressure to hang the doors.

Sliding Doors

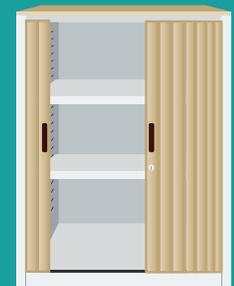
+ 7-8 min.



The double panel is clipped. A simple clip is used to fit the anti-sagging system.



The shelves are placed on guides at the height chosen by the user.

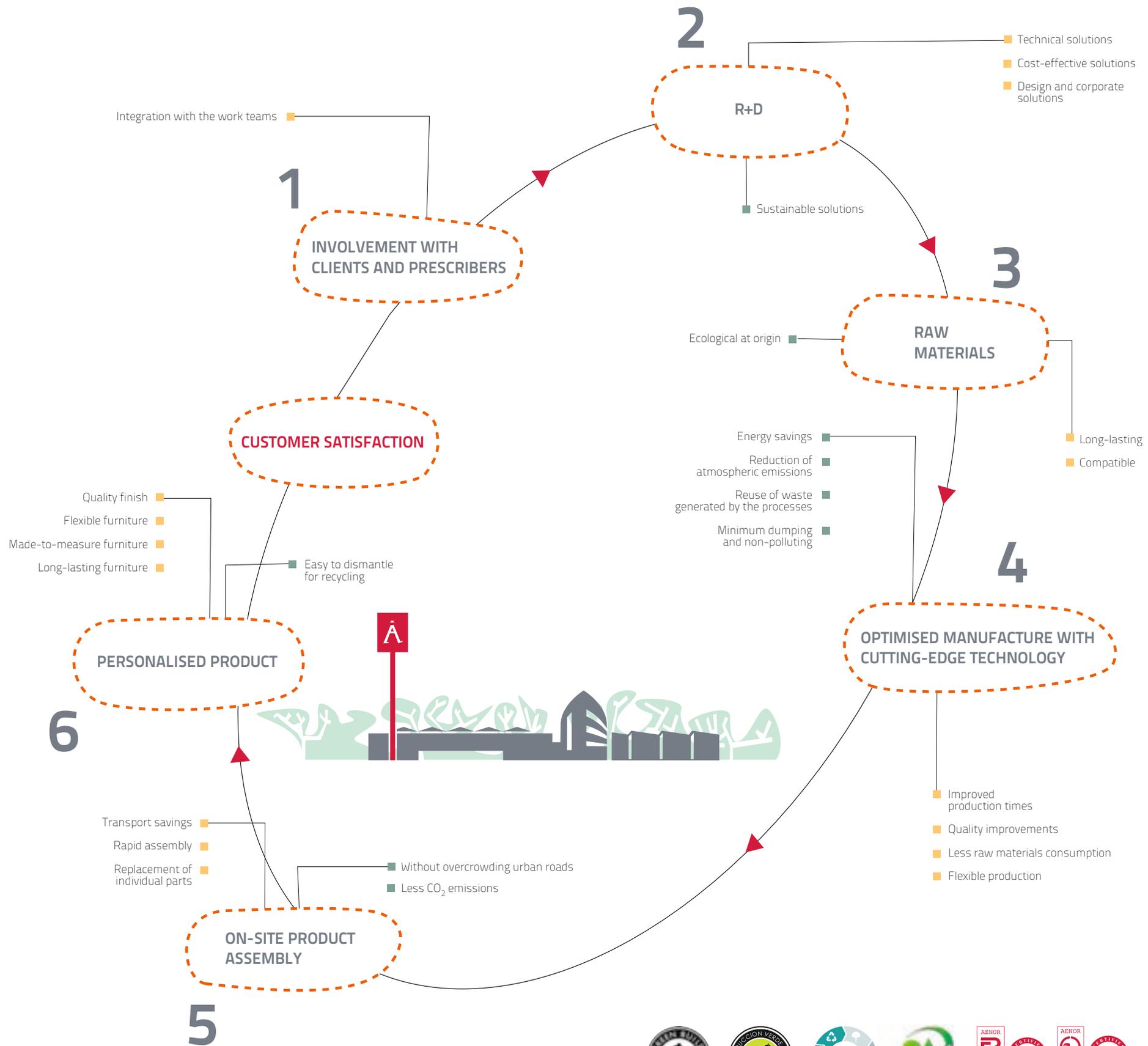


The doors are clipped to the guideways and the shelves are placed on guides at the height chosen by the user.

An efficient philosophy

We aim to satisfy our clients. Clients satisfied because they have chosen a higher quality, lower cost and more sustainable product.

Clients who know that less means more. That less natural resources mean less energy consumption and less emissions mean more sustainability and more future.



Looking towards the future

Discover where this
furniture is born

Sustainability is how we understand industrial activity, so that's why our installations respect our natural setting, are pleasant to work in and very efficient in the use of natural resources.



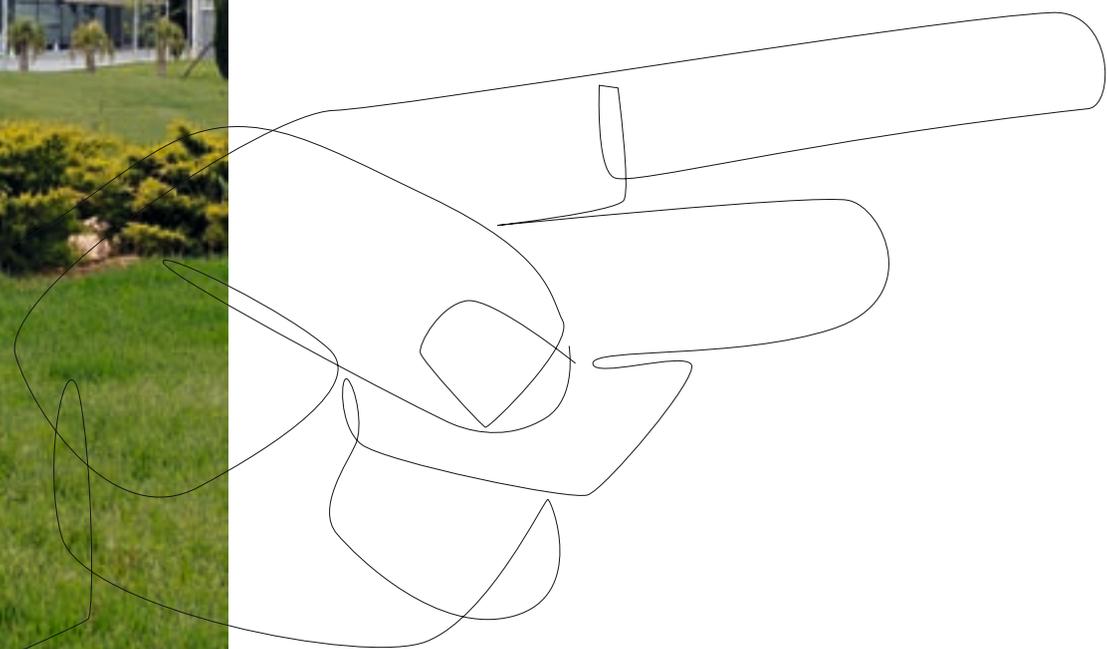
We have been in Foia de Castalla on the shores of the Mediterranean for four decades, and the Actiu Technological Park has become a point of reference for modern architecture, as well as an example of how to **respect the region**, the landscape and local history.

We have converted our surroundings **into somewhere pleasant to work**: a landscaped area housing the corporate building, the logistics area and the three production plants. All the buildings enjoy abundant natural lighting and all feel the presence of Castalla castle, something that reminds us who we are.

However, what you can't see is perhaps more important: the effort made to use natural resources **efficiently**.

The first of these is **water**. We have turned the roofs of our buildings into collectors that send all the rainwater to cisterns and allow us to be self-sufficient.

The second is **energy**, the consumption of which we have optimised in two ways: by studying the orientation of spaces and openings, while always insulating the external surfaces. This is complemented by the many solar panels installed on the roofs of our buildings. This high-performance installation means that we can use 20% of this **clean energy**, sending 80% to be used in the surrounding area



The Actiu Technological Park

Actiu has started the procedure for registering with the U.S. Green Building Council, so as to obtain the LEED for Existing Buildings.

The LEED EB Certification process (Existing Building: Operations and Maintenance) will allow the Actiu Corporate Building to significantly reduce the environmental impact of the daily activities associated with the use of water and energy, waste management, the purchase of environmentally sustainable products and the continuous evaluation and improvement of internal environmental quality.

This initiative makes Actiu leaders with regard to this kind of certification for existing buildings.

Designed by the architect José Ma Tomás Llavador, it is a building with a surface area of over 6.000 m², on three floors, planned to be both worker and environmentally friendly.

After its opening and following the LEED guidelines, we have incorporated solutions and used resources that make our building sustainable. Its architectural values have led to us receiving international recognition, such as the Bex 2009 Award in the sustainability category and the Anuaría, Fopa and Construye awards, amongst others.



A leadership commitment in energy and environmental design. A common language with future, capable of measuring the construction efficiencies and its interaction with the environment.

Underground tanks:

For rainwater: 11.000 m³.

For drinking water: 1.500 m³.

Waste water purifier: 2.500 m³

Gardens:

2.000 trees and 5.000 Mediterranean plants cover 65% of the Park

Solar energy plant:

Generating 7.000.000 kWh per year

CO₂ emissions reduced by 8.250 Tn



The Actiu Technological Park

Lightness, comfort and open spaces

A flexible environment adaptable to the changing needs of a company in permanent evolution. Open spaces to help the team communication flow as well as transparent to allow the ideas and suggestions to flow. Lightness to enjoy the Mediterranean sun and of course all the conditions to offer an optimum working environment.



Water, light and air

A natural and friendly estate where we only have 30% of building space, resulting in a low environmental impact and also we do not lose our immediate natural area vision.



An unlimited offer

With standard products or specific models for each project

Industry

Banking

Health care services

Social centres

Universities

Libraries and archives

Schools

Airports

Passenger terminals

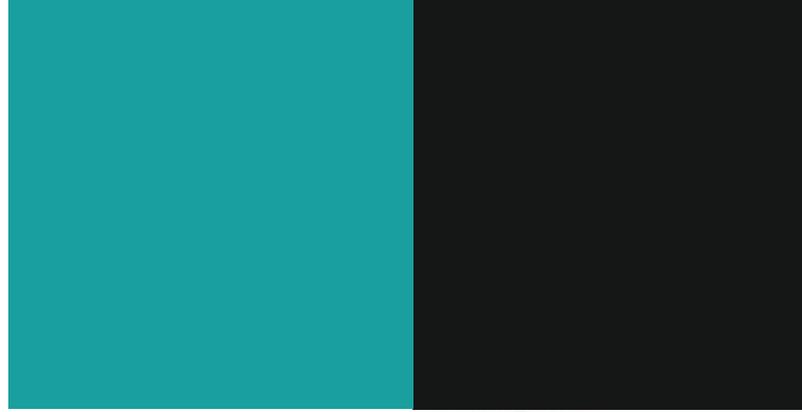
Cultural centres

Hotels

Sports facilities

Auditoriums

Contract



Shelving

Lockers

Cupboards

Filing cabinets

Counters

Display units ...