

CAMEC®

RECYCLING PLANTS DIVISION

WHAT WE DO

Waste is a resource

CAMEC designs and builds
the technology to recover it.

Thirty years of expertise in industrial recycling and material handling.

Every machine, every plant starts from a specific project — engineered around the material, the process, and the output the customer needs to achieve.

Since 1993 — Made in Italy

RECYCLING
DIVISION

HANDLING
DIVISION

RECYCLING PLANTS
DIVISION

Three divisions — Recycling, Handling, and Recycling Plants — meet every industrial requirement, from individual machines to complete turnkey systems. A fully integrated operation, active internationally, with a single point of contact for every customer.

From turnkey supply and feasibility studies to 3D simulation, plant revamping, and after-sales support: every phase is managed by one team, with OEM spare parts and continuous technical assistance throughout the plant's operational life.

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“Work hard in silence, let your success be the noise”

Ever since CAMEC was incorporated in 1993, we have always been known as “The Reliable Brand” recognized as a solid, dependable, and highly qualified manufacturer.

We never lose sight of our roots and we carry our Made in Italy legacy forward day after day on the international Recycling and Handling scene.

We are future-oriented, aware of where we’re going and certain that CAMEC is the most reliable choice for our customers.

Recycling Plants Division

CAMEC 's complete plants for solid waste treatment and transformation are functional technological solutions, custom built to meet the needs of each client and to recover secondary raw materials of high purity and high quality.

Design and construction of turnkey recycling plants.

We work with a wide range of materials, guaranteeing top quality results and making our technology adaptable to match diverse industrial requirements.

- Tetra Pak®
- Aluminium
- Textile scrap
- Food waste
- Hospital waste
- Paper and cardboard
- Municipal solid waste
- WEEE
- Pulper waste
- Copper cables
- PVC profiles
- Tyres
- Plastic
- Bulky and industrial waste
- Ferrous material
- Wood
- Rubber
- Oil filters
- Photovoltaic Panels
- Toner Cartridge

Can't find your material in the list?
CAMEC supplies customized solutions, so just let us know what you need and what type of material you will be shredding.

We'll always offer the best possible solution.



Paper and Cardboard Plant



watch the video



Paper is a widely used and recycled material, but its resistance during the volume reduction process should not be underestimated. It is extremely abrasive, requiring powerful machines and wear-resistant tools for its treatment.

CAMEC plants can also handle large reels of paper.

Cardboard-specific plants are extensions of the systems used for paper treatment. Certain parts of these plants are customised in order to increase the productivity and quality of the material they process.

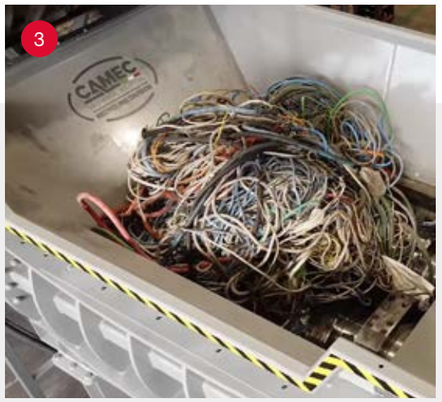


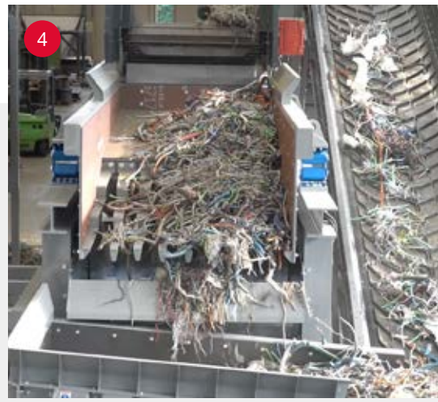






Copper Cable Plant







watch the video

The shredding and treatment of electrical cables is a very profitable sector because it allows raw materials to be obtained, including copper, the demand for which is constantly increasing.

CAMEC plants are designed to implement a shredding and separation process, which results in a high-value output product and copper production with a high degree of purity.



















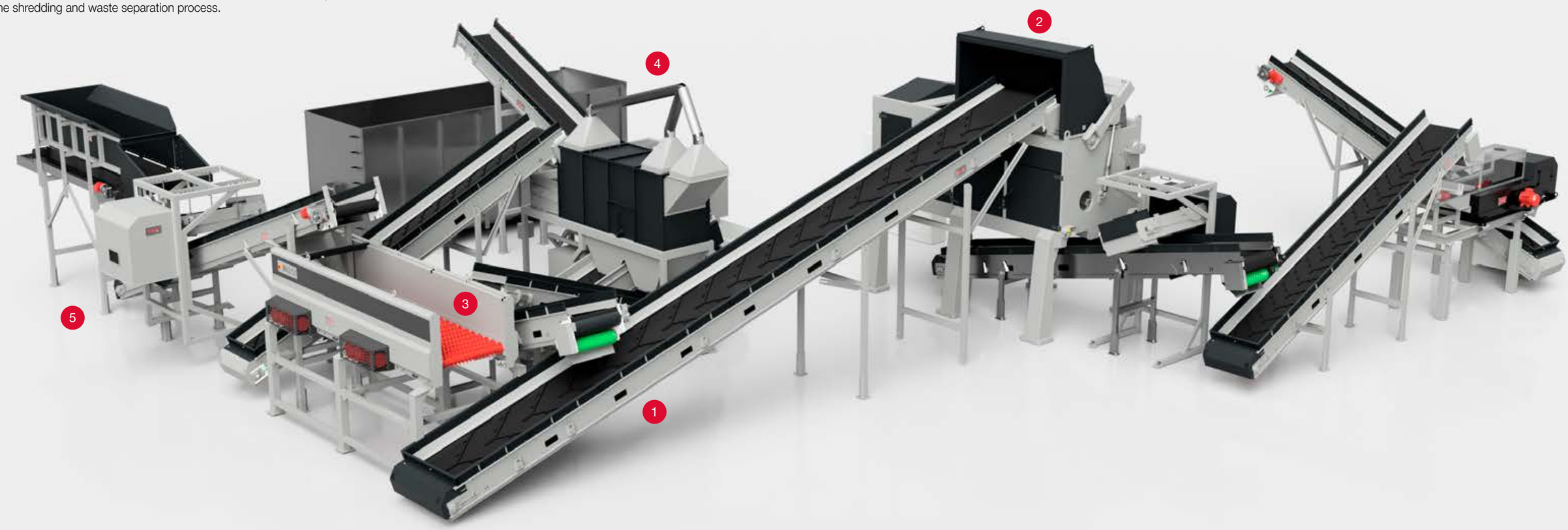


RDF-SSF Plant

The plant designed by CAMEC for RDF/SSF can be customised according to the characteristics of the incoming material and the customer's requirements: it is possible to integrate non-ferrous metal separators, a disk screen, customised conveying systems and much more.

The material can be loaded onto the belt that feeds the primary waste shredder or directly into the waste shredder, depending on availability of space. The material is reduced to a homogenous and consistent piece size, which is subsequently deferrised by means of the ferrous metal separator and from which non-shreddable bodies are removed by means of the Aeraulic Separator. The RDF/SSF plant is equipped with a dust extraction system formed during the shredding and waste separation process.























Sensitive Documents Plant

CAMEC offers purpose-built plants to respond to very specific requests for the destruction of confidential documents by public or private bodies, organisations and administrations.

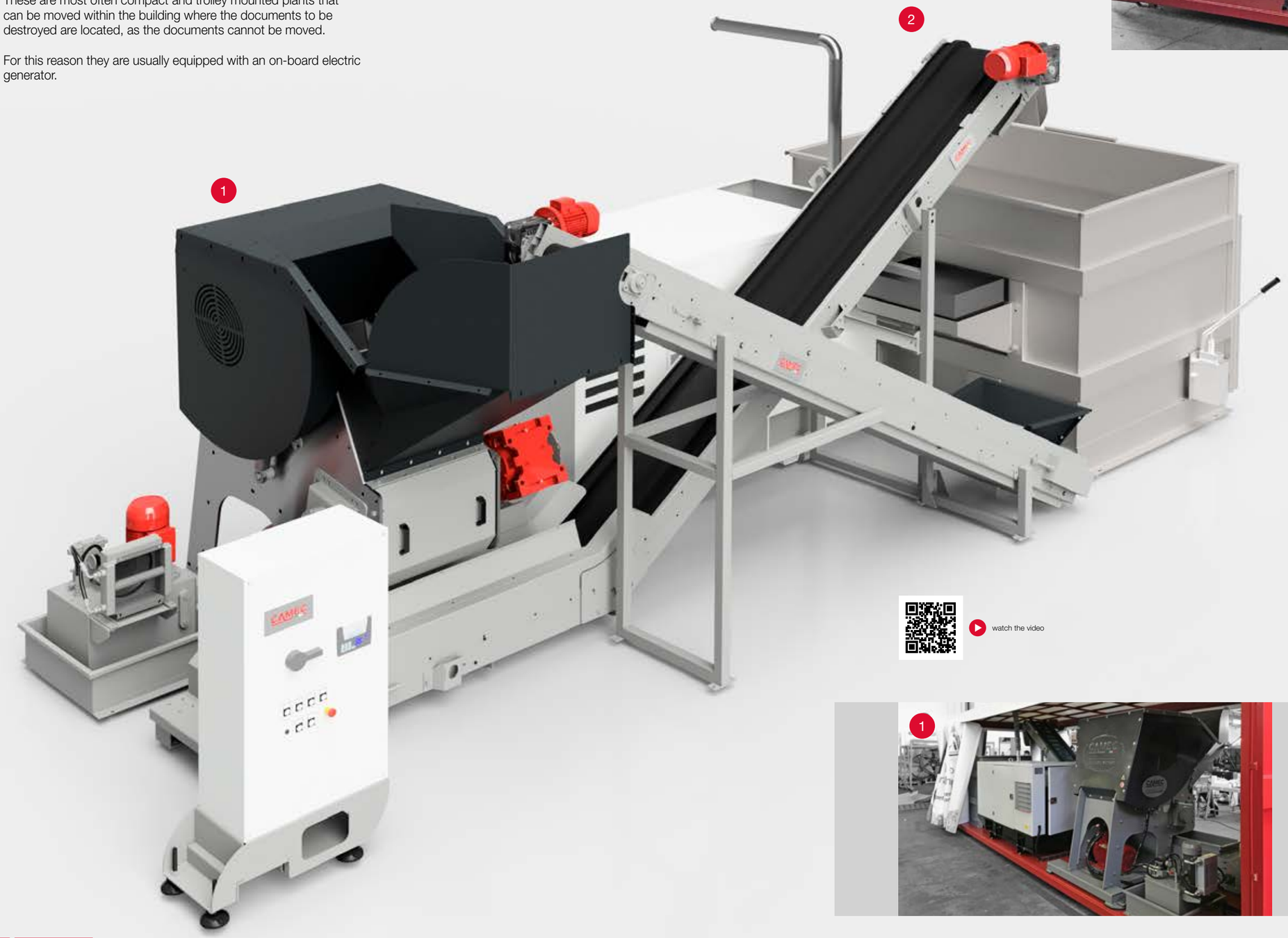
Documents are destroyed in a fully secure and definitive manner.

These are most often compact and trolley mounted plants that can be moved within the building where the documents to be destroyed are located, as the documents cannot be moved.

For this reason they are usually equipped with an on-board electric generator.

1

2









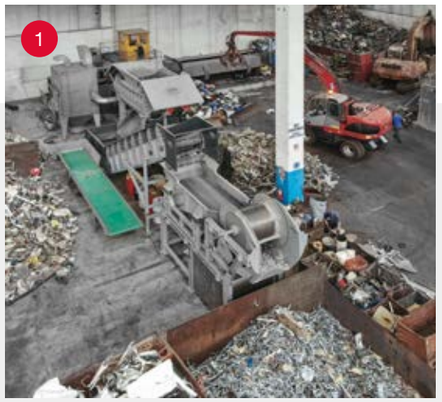
watch the video

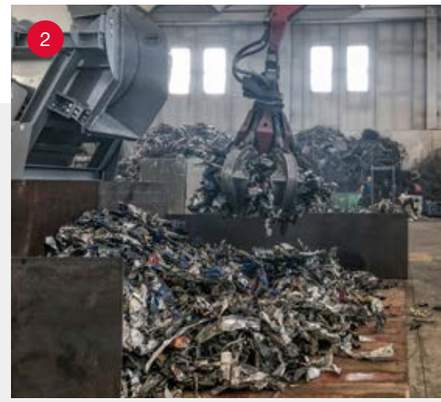


Scrap Iron Plant

Rotary shears and hammer granulators are the top of the CAMEC range for processing scrap metal. A homogeneous output material can be obtained with a high specific weight, which makes it possible to reduce transport costs and the risk of polluting bodies inside the treated material.

The plants built by CAMEC are able to process material in compacted bundles as well as bulk material for collection.







watch the video















Bulky Waste Plant





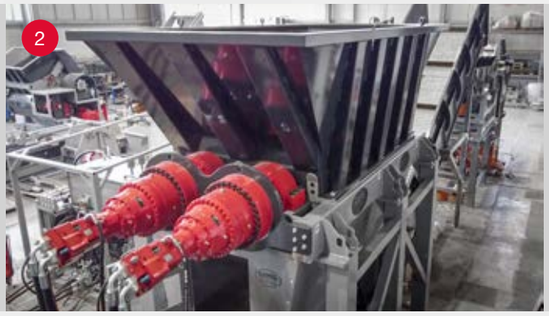
The CAMEC plant includes a mill available in different configurations, which can be combined with a magnetic separator for the separation of iron, or an inductive current system for the separation of non-ferrous metals.

The purpose of this process is to recover the materials contained in the bulky waste and re-introduce them into the market as secondary raw materials, thus closing the virtuous circle of waste collection.

Like all CAMEC plants, the bulky waste plant is fully customised to meet customer requirements.

watch the video





















Rigid Plastics Plant







watch the video

The rigid plastics treatment plant is specifically designed by CAMEC for the transformation of hollow-body rigid plastics into granules to be used as SRM (secondary raw material).

The PLC located inside the electrical cabinet manages the entire production cycle and allows the granulation/separation of plastics from ferrous and non-ferrous materials.

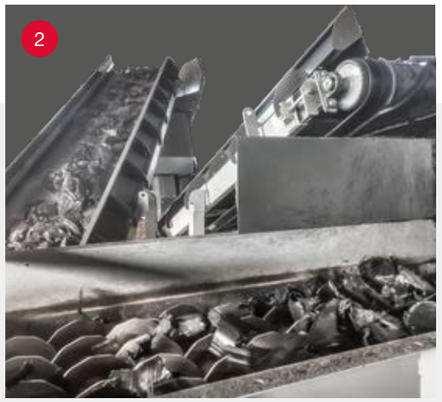
In addition, the plant is equipped with pre-settable recipes for rotor speed, separation belt speed, pusher pressure and deferrisation belt reversal in order to help the operator in using the same process at different times.







Tyre Plant





The CAMEC plant for the treatment of ELTs (end-of-life tyres) produces secondary raw material of various particle sizes, while separating other components such as steel and textile fibre.

The plant consists of four main stages, which can be carried out together in a single solution or in separate steps according to customer requirements.

The first part of the plant involves the shredding of the tyre using blade machine technology; the second part transforms the shredded rubber into 20 mm chipped rubber, generating the first separation of the ply and steel inside the tyre; the third stage transforms the chipped rubber into powder and further separates the ply and steel residue remaining from the previous stage. At the end of the treatment cycle, the fourth stage involves the total cleaning of the steel extracted from the tyre with 99% purity.

watch the video





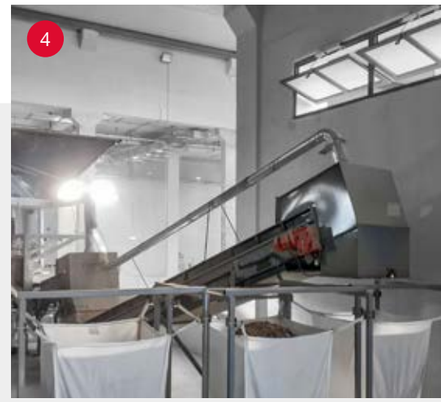




Wood and Mattresses Plant



watch the video



By recycling wood and mattresses, new materials can be obtained that are used for industrial purposes as well as the production of renewable energy. Through high quality shredding we can obtain an output product with a high degree of purity and free of contaminants.





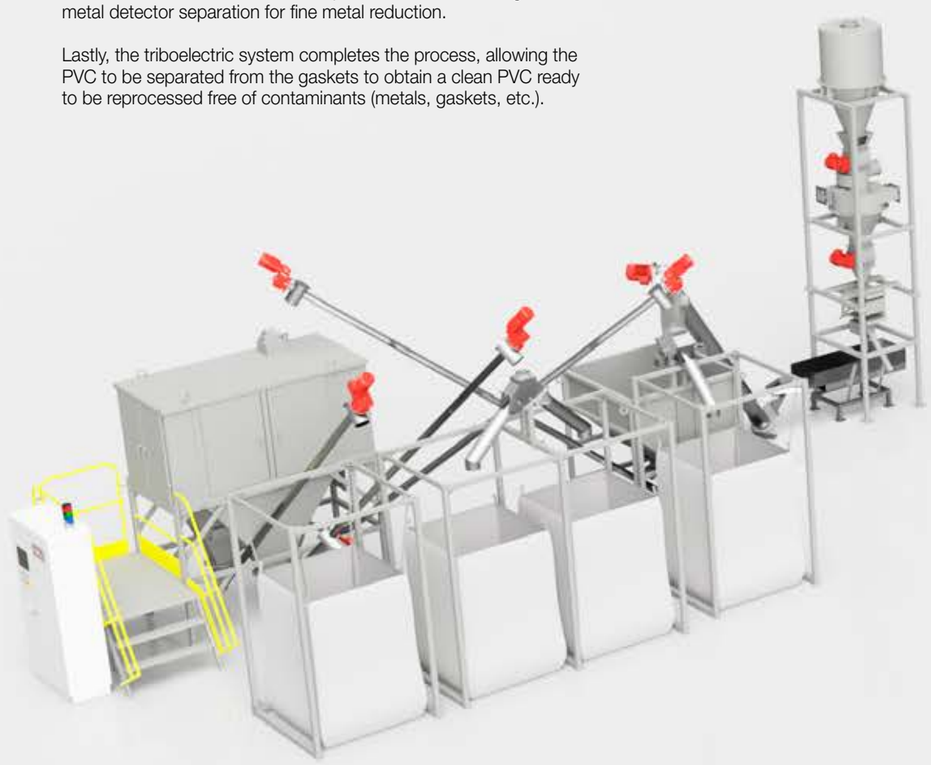


PVC Profiles Plant

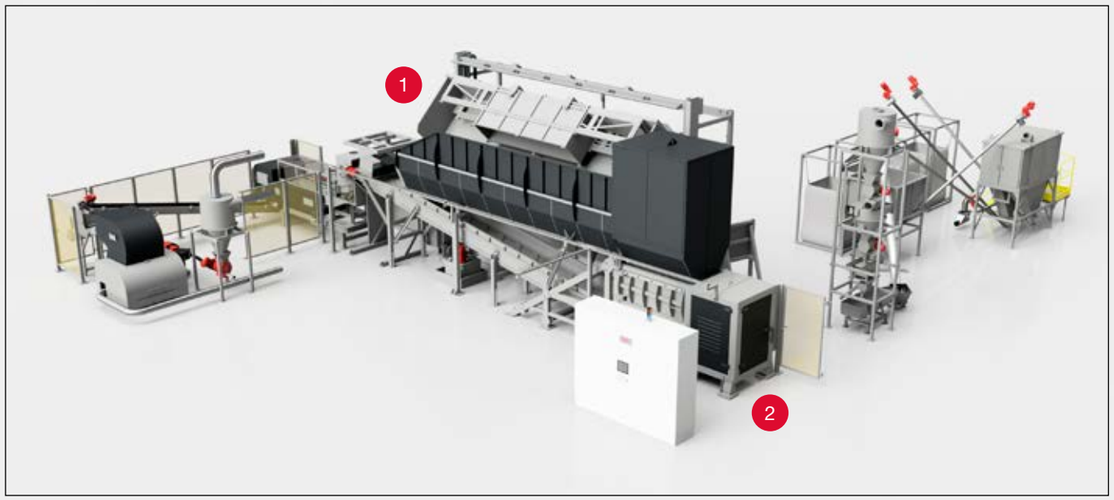
The CAMEC plant allows the shredding of PVC profiles, including long ones, with an automatic loading system that can be customised according to customer requirements, in particular by allowing the use of tipping bins of different shapes and sizes.

The material then goes through a series of processes ranging from deferrisation to inductive current separation, from dedusting to metal detector separation for fine metal reduction.

Lastly, the triboelectric system completes the process, allowing the PVC to be separated from the gaskets to obtain a clean PVC ready to be reprocessed free of contaminants (metals, gaskets, etc.).





















WEEE Treatment and Valorisation Plants

WEEE from categories R2, R3 and R4 represent one of the most complex types of waste to process, due to the combined presence of metals, engineering plastics and electronic components.

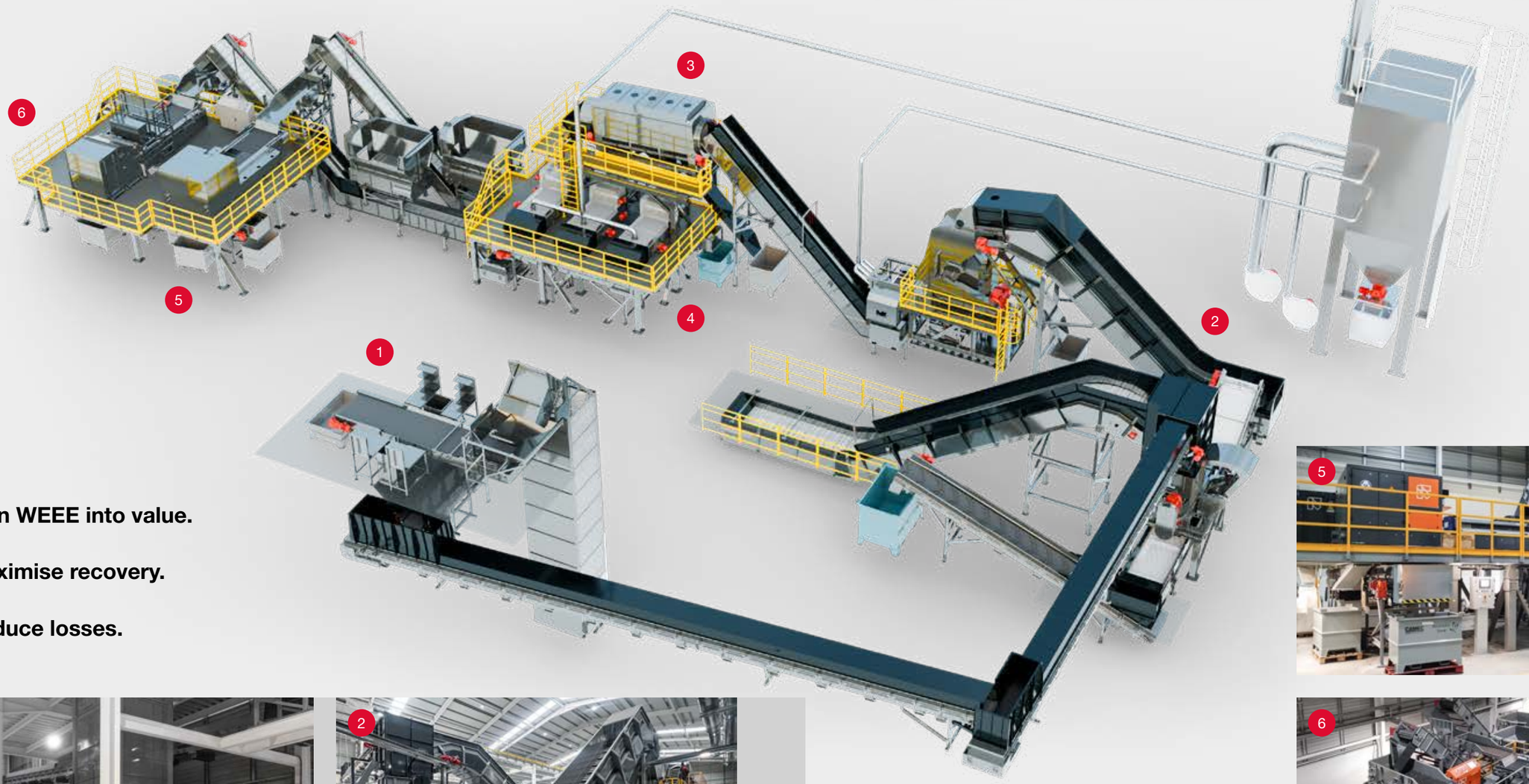
CAMEC designs and delivers turnkey plants for the treatment and recycling of these fractions, with the objective of maximising material recovery and reducing process losses.

Each solution is developed to meet specific operating conditions and customer requirements.

The treatment cycle integrates manual sorting, size reduction and automated separation systems, ensuring efficient recovery of the different material fractions.







Turn WEEE into value.

Maximise recovery.

Reduce losses.

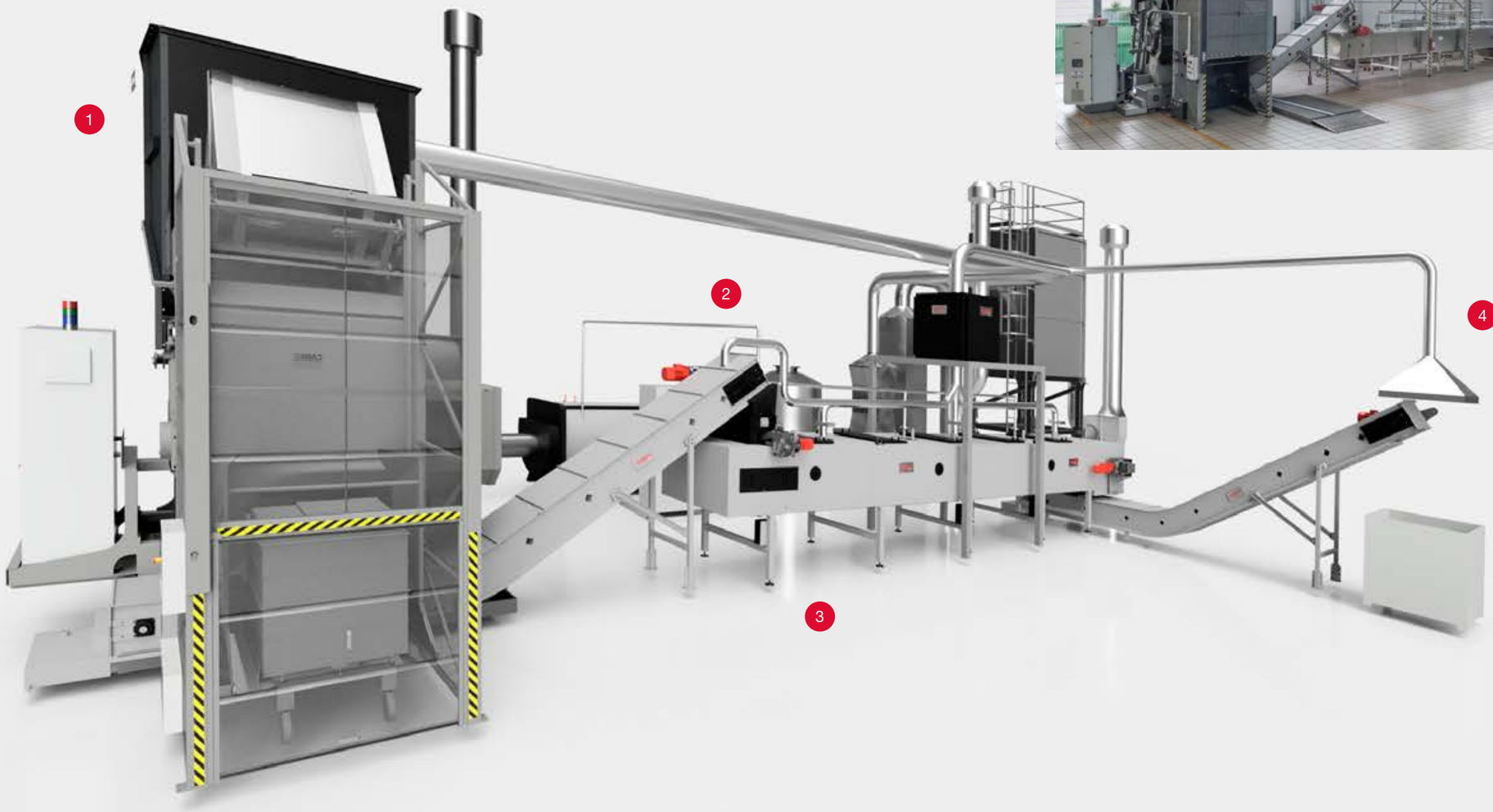








Hospital Waste Plant







CAMEC hospital waste treatment plants are customised to the customer's specifications, applying the latest shredding technologies.

Designed to comply with strict regulations for the sterilisation and disposal of hazardous medical waste, these plants are compact in size and efficient in terms of the end result. The waste is shredded to a piece size that can be transported by a hermetically sealed stainless steel screw conveyor inside the sanitiser or dedicated transport systems.







Special Waste Plant







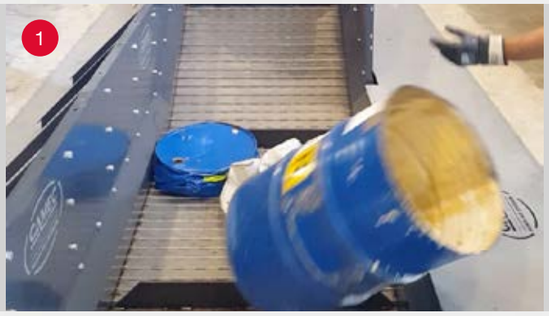
watch the video

CAMEC hazardous waste plants are designed to ensure the proper shredding of materials containing hazardous substances.

Thanks to strict safety standards and advanced processes, these plants minimise the risk of environmental pollution, protecting water resources, soil and air.

For non-hazardous waste, CAMEC has dedicated plants for the efficient recycling and separation of domestic and commercial waste. Through advanced processing, waste is disposed of responsibly, reducing the amount of waste going to landfill.

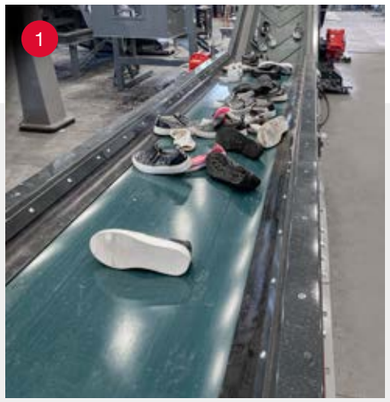




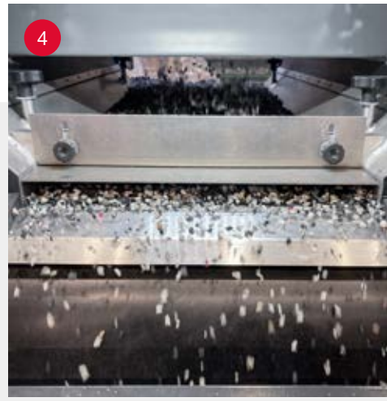




Sneakers Plant









The CAMEC plant provides for an initial shredding with a single-shaft shredder of different sizes, depending on the production required, with subsequent deferrisation before being passed to the induction current system.

The second grinding with a granulator then makes it possible to obtain a piece size of 10 mm.

Finally, the use of a zigzag separator and densimetric table makes it possible to obtain clean rubber free of textile components, which can be reused and reprocessed in line with a circular economy approach.









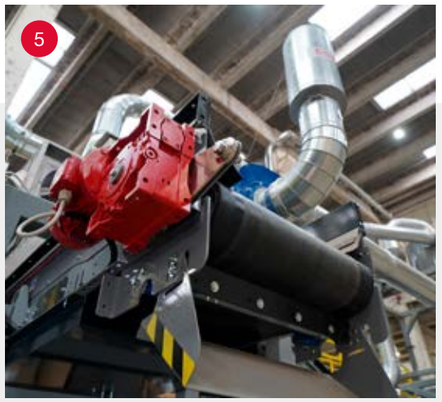
Pulper Waste and Rope Plant

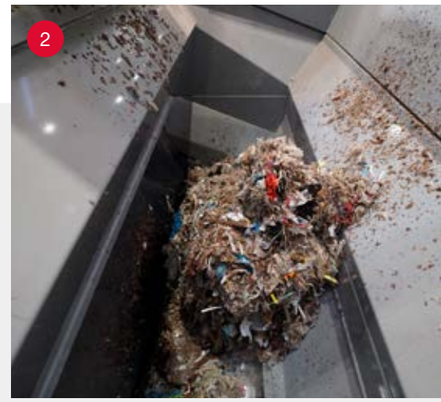
For all entities specialising in paper recycling, CAMEC offers a plant specifically dedicated to the treatment of pulper waste, designed to separate its ferrous fraction from its non-ferrous fraction.

Thanks to this solution, which involves the use of our patented separation technology, the fractions obtained can be valorised to such an extent that the investment for the plant can be recovered in an extremely short time.

The material is shredded by means of a single-shaft shredder from the GS CAMEC line, equipped with a radial hydraulic pusher that compresses the waste inside the special cutting chamber.

By means of the rotor – fitted with special cutters – and a calibration grid, the waste is thus reduced to a controlled piece size for subsequent separation of the ferrous fraction from the other materials, mainly plastic.







watch the video














GS650/30

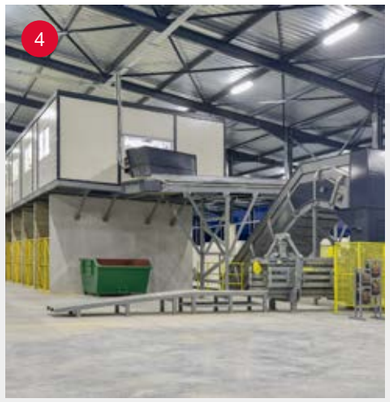



GS650/30

MSW Sorting Plant

In order to effectively sort MSW, a CAMEC sorting plant can be used, which makes it possible to separate the different components present in undifferentiated waste in an extremely precise manner and thus obtain recovered material, ready to be sent to recycling plants.

Its effectiveness is based on the presence of operators who select specific materials from the unsorted waste, which are removed from the mass and then sent to the subsequent treatment and recovery phases.









Each sorting plant is designed, sized and manufactured in a customised manner according to the particular needs of the area where it will be operating.

watch the video












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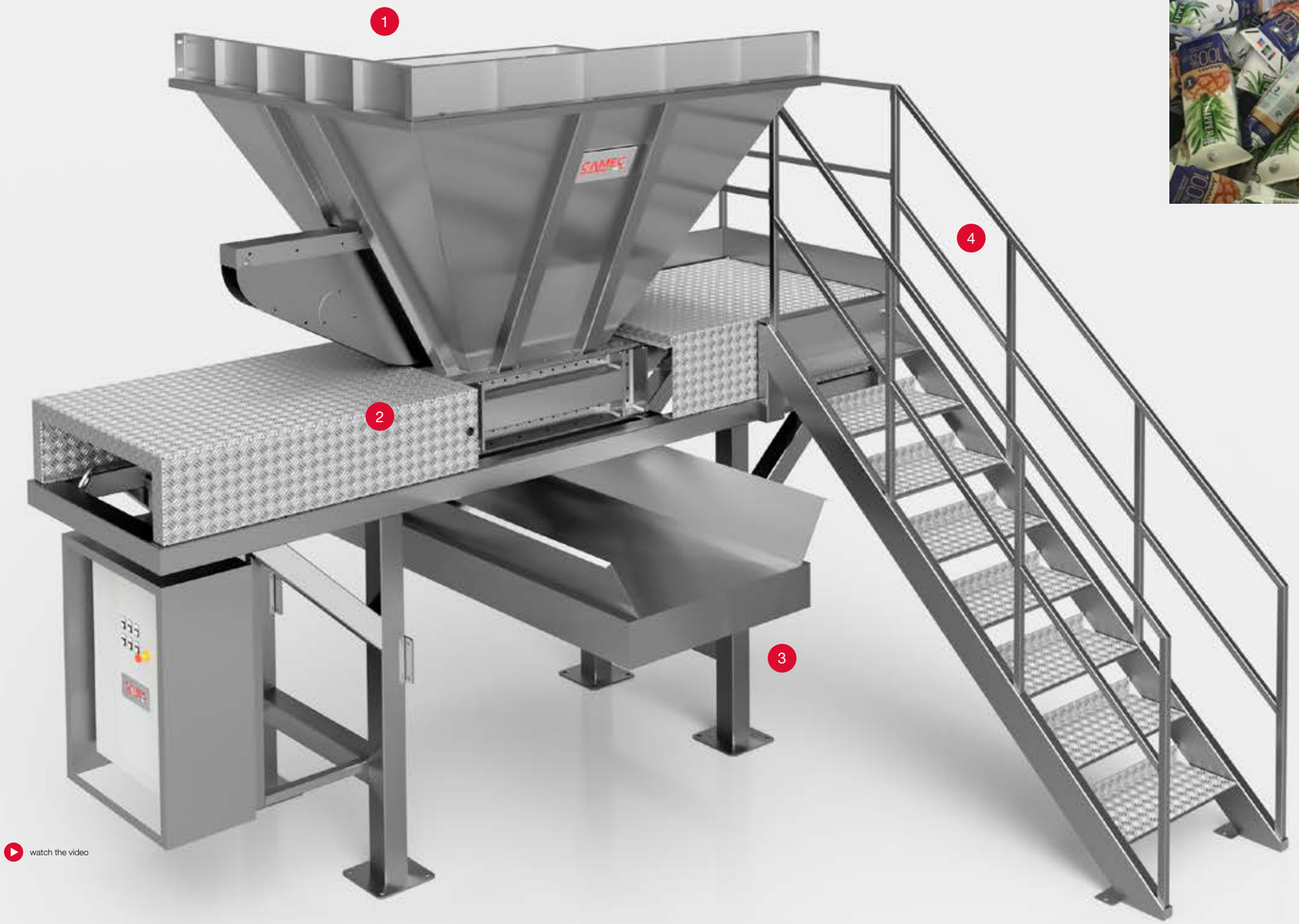






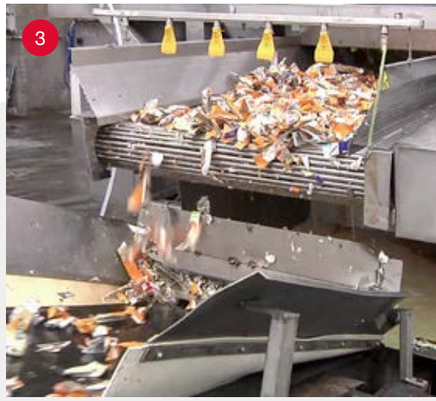


Tetra Pak® Plant



watch the video





The widespread use of Tetra Pak® in the world of food packaging prompted CAMEC to develop a solution specifically for shredding this type of material.

The plant can be made entirely of AISI 304 stainless steel, as Tetra Pak® containers can contain highly corrosive acidifying liquids.

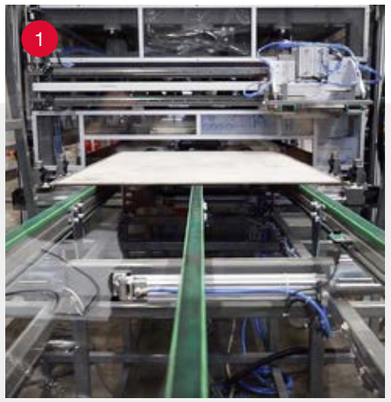








Photovoltaic Panels Treatment Plant





Photovoltaic panels treatment plants must be carefully designed and equipped with special machinery for shredding and screening the waste: CAMEC has developed various solutions for the treatment of category 4 WEEE.

All components of a photovoltaic panel - the various metals, aluminium frames and module frames, glass, cables and plastic - can be processed by mechanically separating them and reusing all of the parts.

This breakdown process yields ferrous metals, non-ferrous metals, glass, silicon and plastic, each of which can be reused to create new products.

TECHNICAL SPECIFICATIONS

Production capacity	50-60 panels / hour 1,800 kg / hour (panel 30 kg AVG)
Safety	Safety barriers provided
AVG power	170 kW (very efficient!)
Size of the line	30 (L) × 4.5 (W) × 3.5 (H) m (the most compact!)
Voltage	3 P+N+G, 400V









Patented Glass Removal Photovoltaic Panel Recycling Plant

N°2 CAPACITY CONFIGURATIONS (60 / 120 PPH)

The CAMEC photovoltaic panel recycling plant is available in two industrial configurations, designed to ensure high productivity, low operating costs, and reliable continuous operation.
This patented technology enables the processing of both monofacial and bifacial photovoltaic panels, including glass/glass modules, while ensuring high-purity material recovery and valorization.

Our Unique Selling Points:

- Patented method for 100% glass removal
- 40% lower power consumption*
- 20% less required space*
- 30% lower operating costs*
- 1–2 year payback period
- Low-cost spare parts
- Reduced maintenance
- Operator safety
- Complete traceability
- CE certified, compliant with EU standards
- High-purity recovery of raw materials such as glass, silicon, and metals







PHOTOVOLTAIC PANELS RECYCLING LINE

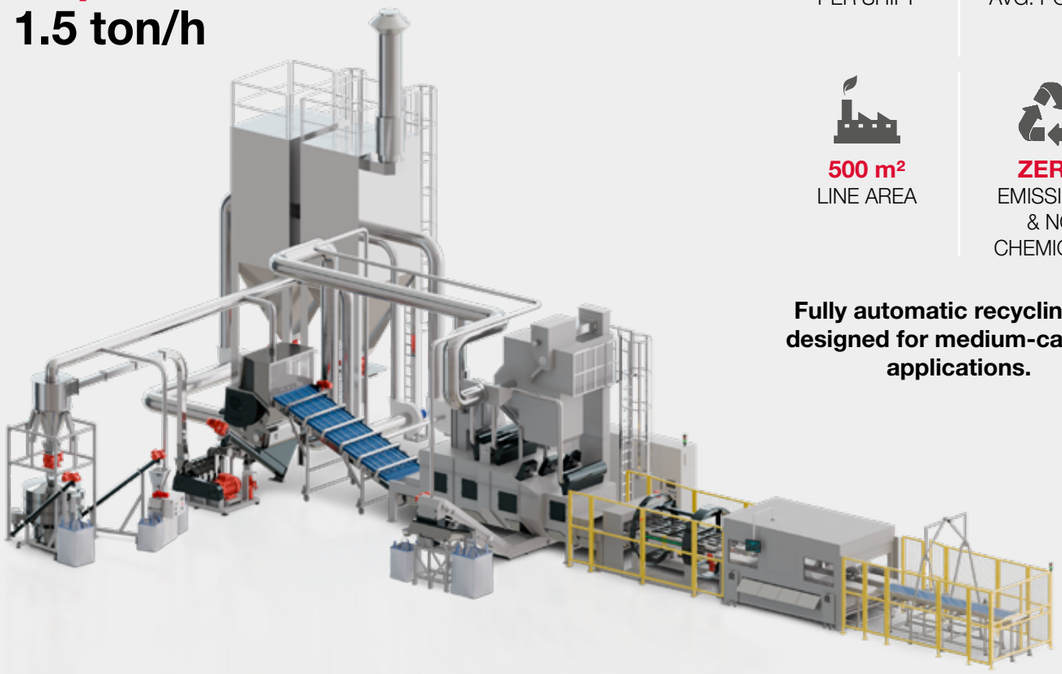
60 panels/h
1.5 ton/h

2 WORKERS PER SHIFT

130 KW AVG. POWER

500 m² LINE AREA

ZERO EMISSIONS & NO CHEMICALS



Fully automatic recycling line designed for medium-capacity applications.

LINE DIMENSIONS 30m (length) × 6m (height) × 9m (depth)





PATENTED SYSTEM TECHNOLOGY **100%** GLASS REMOVAL

PHOTOVOLTAIC PANELS RECYCLING LINE

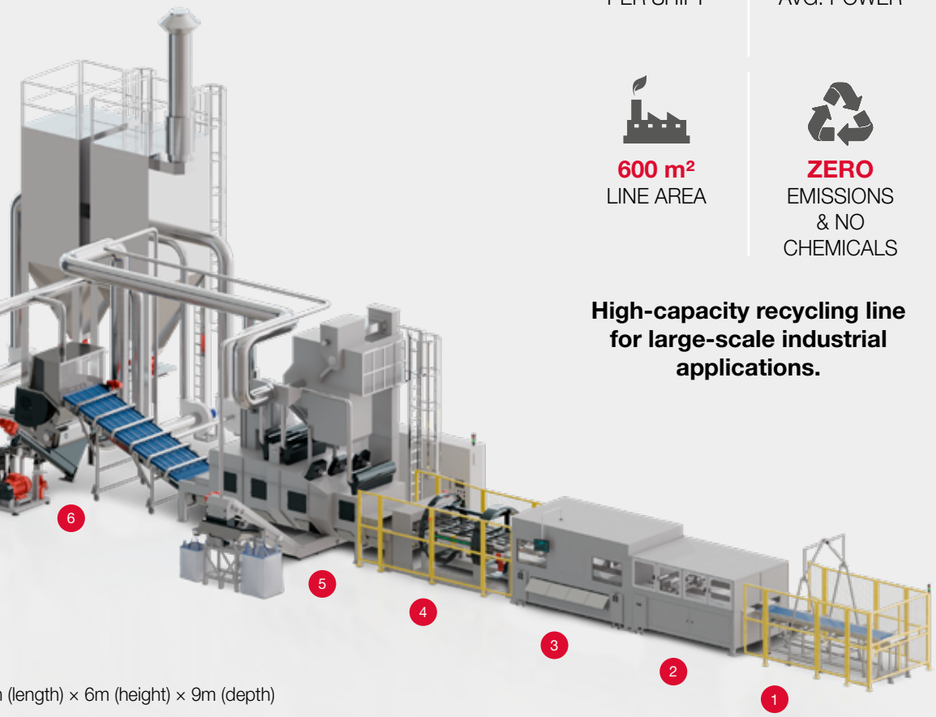
120 panels/h
3 ton/h

2 WORKERS PER SHIFT

160 KW AVG. POWER

600 m² LINE AREA

ZERO EMISSIONS & NO CHEMICALS



High-capacity recycling line for large-scale industrial applications.

LINE DIMENSIONS 35m (length) × 6m (height) × 9m (depth)





*The reported values are estimated based on a comparison with data from major competitors and may vary.

Developed in collaboration with ECOPROGETTI SPECIALIST IN PHOTOVOLTAIC PRODUCTION PROCESS

Toner Cartridge Treatment Plant



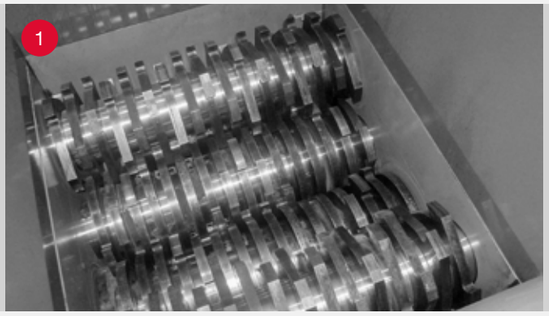


Since spent toner cartridges as printing consumables are considered waste that cannot be assimilated with other waste, CAMEC has developed special plants dedicated to these materials.

The first processing phase is carried out by means of a four-shaft machine that reduces the materials introduced to a 40 mm piece size to facilitate the separation of powders and metals in the subsequent steps of the process.

The powders inside are processed and sucked up by means of special Atex class systems to be subsequently sent for reuse.

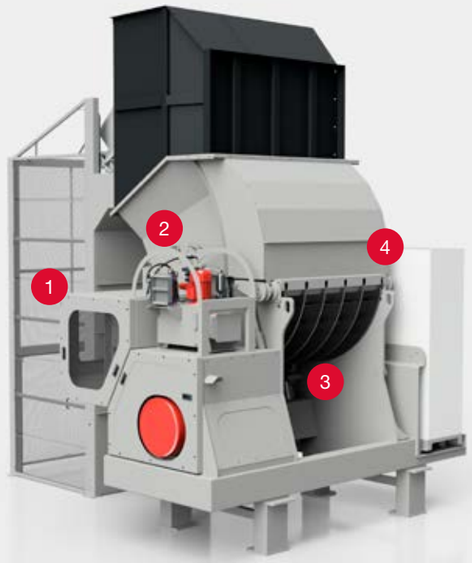






Aluminium Shredding Plant







Combined and integrated solution with front discharge tipper and GSR480 single-shaft shredder for handling and shredding aluminium chips.

Choosing a combined tipper-shredder solution allows you to optimise the potential of the different machines, because the tools are designed from the start to work synergistically.

watch the video





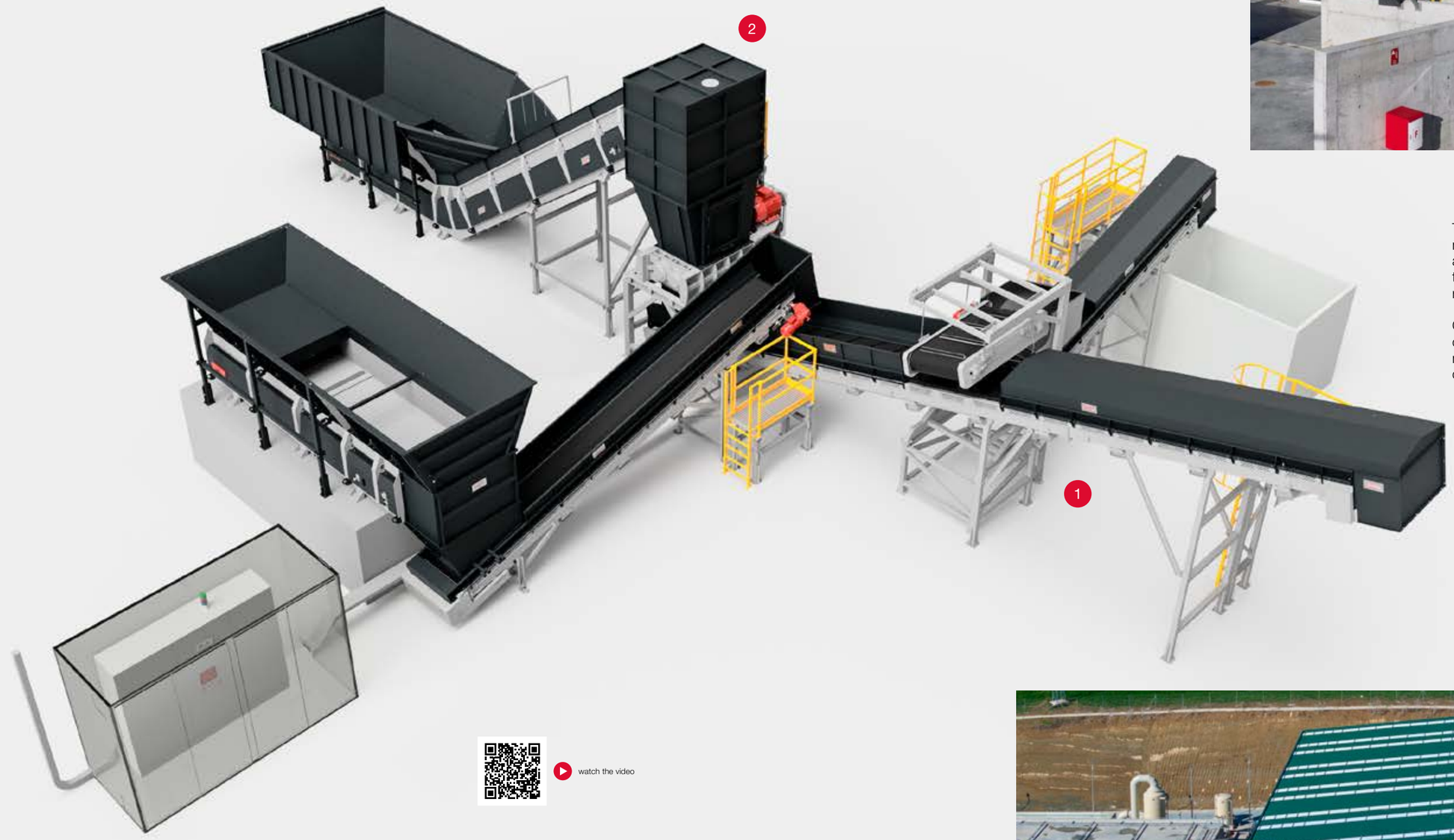






Composting Plant





The composting system developed by CAMEC consists of two main lines: the first is dedicated to treating organic material through a Waste crusher available in different configurations; the second, on the other hand, deals with processing branches through a double rotor.

CAMEC integrated transport system allows for the combination of materials from the two main lines, ensuring a homogeneous mixture of the outgoing material and preparing it for the subsequent composting process.

watch the video







MY CAMEC — CREATING VALUE OVER TIME

A plant's value isn't measured at delivery

It is measured in production.
Under load.
Over time.

MAINTENANCE IS PART OF PERFORMANCE

After-sales service is not an accessory — it is an essential component of every supply. MY CAMEC keeps machinery and plants at peak performance — from start-up through to end of service life.

A plant performs as well as its maintenance. With scheduled interventions, OEM spare parts, and continuous technical support, MY CAMEC ensures:

- Sustained high performance over time
- Reduced downtime and operational costs
- Greater component life and reliability
- Uninterrupted operational continuity

SERVICE PORTFOLIO

CAMEC support does not end at delivery. We work alongside our customers with training, direct assistance, and continuous updates — so that the performance agreed at the engineering stage is maintained for the full service life of the plant.

- Residual life assessment and plant revamping
- Remote and on-site technical assistance
- OEM spare parts with fast lead times
- Scheduled maintenance — routine, corrective, and opportunistic
- Customised annual, biennial, and triennial service programmes
- Operator training and ongoing technical updates

MY CAMEC: because the value of a plant doesn't end at delivery.



CERTIFIED QUALITY

International standards

Internal control.
Across every phase.

CAMEC operates to certified standards in Italy and Spain, with direct control from design through to installation. Certifications are not a compliance exercise — they are the result of a quality system built over time.

ISO 9001
Quality Management

ISO 1090-1
Steel and Aluminium Structures

ISO 14001
Environmental Management

SOA
Public Works Certification

EcoVadis
Corporate Sustainability

Impresa 4.0
Digital Transformation



Custom-engineered is not an option.

It is our starting point, our working method, and the measure against which we evaluate every result.

Since 1993 — Made in Italy

TELL US ABOUT YOUR PROJECT
We provide you with the most appropriate SOLUTIONS based on your specific technical needs.

CAMEC continuously improves its products based on customer feedback; the data, descriptions, and images in this catalogue are therefore indicative.

Rev. 4.5

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