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Specialist since 1958 in the manufacture of anticorrosion chemical engineering equipment, CEPIC offers its customers a wide range of material:

- Centrifugal pumps in CEPIC impregnated graphite, Carbonite<sup>®</sup>, and plastics
- Carbonite<sup>®</sup> heat exchangers
- Systems and skids (dilution of H2SO4, treatment of HCl, ejectors, vacuums)
- Carbonite<sup>®</sup> rupture discs
- Carbonite<sup>®</sup> made-to-specification machined parts

Our recently-built, **5000** m<sup>2</sup> production plant is located in Saint Etienne du Rouvray, 120 km north-west of Paris, France.

We master every aspect of the conception, sizing and manufacture of our products. Our process equipment is produced from the following materials: polypropylene (PP), high density polyethylene (HDPE), polyvinylidene fluoride (PVDF), polytetrafluorethylene (PTFE), carbon, graphite and impregnated artificial graphite, Carbonite<sup>®</sup>.

Our technology is based on our selection of the highest-quality materials (fine-grained graphite, topquality plastics...), on tested machining techniques, on our teams' many years of experience and on close collaboration with our customers.

CEPIC equipment is used on all five continents in a wide range of applications :

- Iron and Steel industry
- Heavy chemicals, fine chemicals or specialties
- Petrochemicals
- Pharmaceuticals
- Water treatment
- Agro-food industry
- Incineration and waste treatment...

Our engineers are available to study your needs and offer you the solutions that correspond to your applications. The materials we use allow you to obtain safe solutions for your most aggressive fluids and will reduce your total costs of ownership.





CARBONITE<sup>®</sup> HEAT EXCHANGER

We design, size and manufacture cylindrical and cubic bloc heat exchangers in CEPIC impregnated artificial graphite, Carbonite<sup>®</sup>. Carbonite<sup>®</sup> is an excellent heat conductor and has remarkable chemical inertia.

Our exchangers insure heating, cooling, condensation, etc. of corrosive fluids. The corrosive fluids only come into contact with the anticorrosion materials: Carbonite®, PVDF, coated steel. The fluids on the service side (vapor, water, etc.) are in contact with steel and coated parts.

Each CEPIC exchanger is made up of one or more Carbonite<sup>®</sup> exchange blocs. The exchange blocs are drilled with two series of channels on parallel planes in which the circulation of the fluids takes place. The process and service channels never cross, which guarantees that there will be absolutely no contact between the process and service fluids.

All of our devices are sized in function of our customer's process and application specifications and are manufactured according to the European Pressure Equipment Directive (PED) 97/23/EC.

As part of our full service offer, our new heat exchangers include high-level after-sales service that is fully compliant with current regulations (repairs carried out on our premises, retesting, and genuine spare part).







- Maximum service pressure: 5 bars
- Process material: Carbonite ®
- Service material: Carbonite ®
- Can be fitted in ATEX areas

Service material: steel

Maximum service pressure: 15 bars

Process material: Carbonite ®



CEPIC's centrifugal pumps ensure the completely safe transfer of corrosive liquids. Depending on the model, our line can handle flows of from 1 m<sup>3</sup>/h to up to 700 m<sup>3</sup>/h and discharge heads of from 2 meters to up to 130 meters. CEPIC's centrifugal pumps are massive pumps, built in materials that are particularly resistant to corrosion: impregnated artificial graphite, Carbonite ®, or plastics (PP, HDPE, PVDF and PTFE). An ATEX series is also available (94/9/EC). Sturdy and dependable, CEPIC's pumps are used on all five continents for the most severe types of applications.

Each pump is adapted to our customers' needs. Our engineers choose the materials, the sealing solution (magnetic drive, single mechanical sealing, double...) and the hydraulic sizing, according to the specifications for each application. The pumps we supply are heavy-duty, dependable and have very low carrying costs.

All our pumps are individually tested at the end of the production process, in order to guarantee totally safe operation and perfect customer satisfaction.

We guarantee special follow-up of our pumps and supply quality spare parts that are in strict conformity with the original specifications, even several dozen years after the initial installation.



- ✓ Hydraulic fittings in plastics or impregnated graphite
- ✓ Single-stage or bearing construction



- Economical design
- Hydraulic fittings in plastic materials
- 4 types of sealings





Our manufacturing and engineering capacities allow us to combine our different products in order to create complete skid-fitted systems that can be directly integrated on our customer's premises. We take charge of manufacturing the entire system, thus providing you with a ready-to-install skid.

Our engineers will be happy to study your requirements and work with you to define various complete systems: vacuum generators for up to 1 mbar, skid assemblies for the continuous dilution of sulfuric acid, heating units for hydrochloric acid...

## Vacuum Generators



Sulfuric Acid Dilution Units		Heating Units	<image/>

# **PROCESS EQUIPMENT**

Our know-how in machining large scale parts in impregnated graphite and plastics has allowed us to develop complementary product ranges.

## **Ejectors**



Totally static device that allows for the creation of a vacuum through the use of steam or another motor fluid Construction in impregnated graphite or in plastic materials

#### Thermowells



Device allowing for the installation of a temperature gage in a vat or tubing Construction in impregnated graphite Sizing as per ASME PTC 19.3

#### Agitators

Standard or made to specification Vertical or lateral installation Materials adapted to the application (stainless steel, plastics...) Many different sealings available

## **Micro-filters**



In complement to the anticorrosion pumps, provides protection against solids that may be circulating in the equipment. Construction in impregnated graphite or plastic materials

### Dilutors



Device allowing for the static mixing of a concentrated acid with another liquid (for example, water) Construction in Carbonite ®

## Made to Specification Parts



Our production methods allow us to machine parts of the following dimensions: Max. diameter: 1400mm Max. Length : 1800 mm

## **GRAPHITE RUPTURE DISCS**



- Designed to protect installations that undergo stress due to variations in pressurization.
- Highly economical and can be used with no corrosion constraints
- Maximum nominal diameter: 500 mm
- Maximum pressure: 70 bars
- Can be used in vacuums
- Material: impregnated graphite



Due to the full integration of the design and manufacturing phases of our material, we are experts in a number of technological domains. This allows us to be highly reactive to your most varied needs.







By car Paris, Highway A13, exit 22. By train from St Lazare -> Oissel





