

Innovation and performance

Electricity

Mechanics

Automotive

Defence

Nuclear

Safety

Energy

Glass

Aerospace

Offshore

Hydraulics

Industry

Marine

Environment



 **PRONAL**

**Elastomer Engineering**

 **LDA**  
Solutions for Life

[www.pronal.com](http://www.pronal.com) - [www.LDA.be](http://www.LDA.be)



nal Headquarters, France - Leers

# Pronal

## A few figures...

- Date founded : 1961
- Turnover : **in excess of €18 million**
- 170 employees
- 2 production sites (France and Tunisia)
- Over 50,000 referenced products are manufactured
- ISO 9001 : 2008 Certification



## Product range

- Tanks
- Cushions
- Lifting bags
- Stoppers
- Compensators
- Floats
- Bags
- Customised design

## Services offered

- Research
- Design
- Project engineering
- Assembly
- Support
- Training
- Maintenance
- Repair



Factory in Tunisia



Our entire organisation is guided by one watchword:  
**Quality.**

ISO 9001 version 2008

Over 3,000 customers place their trust in us!  
Please feel free to contact us

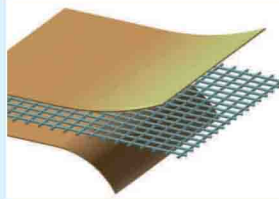
# Who is Pronal ?

**PRONAL** is recognised as a world player in the design, production and installation of flexible structures manufactured from elastomer, plastomer and/or composite coated materials.

## ■ Our mission

To provide our customers with reliable industrial solutions to their problems of storage, lifting, sealing and insulation, together with associated services.

*At the heart of our business is the concept of flexibility*



- Lightness
- Impermeable
- High traction strength
- Flexibility
- Elasticity
- Resistance to the mechanical stresses of abrasion, tearing and perforation
- Resistance to environmental conditions



## ■ Our priority : providing our customers with satisfaction

### ▪ A to Z support

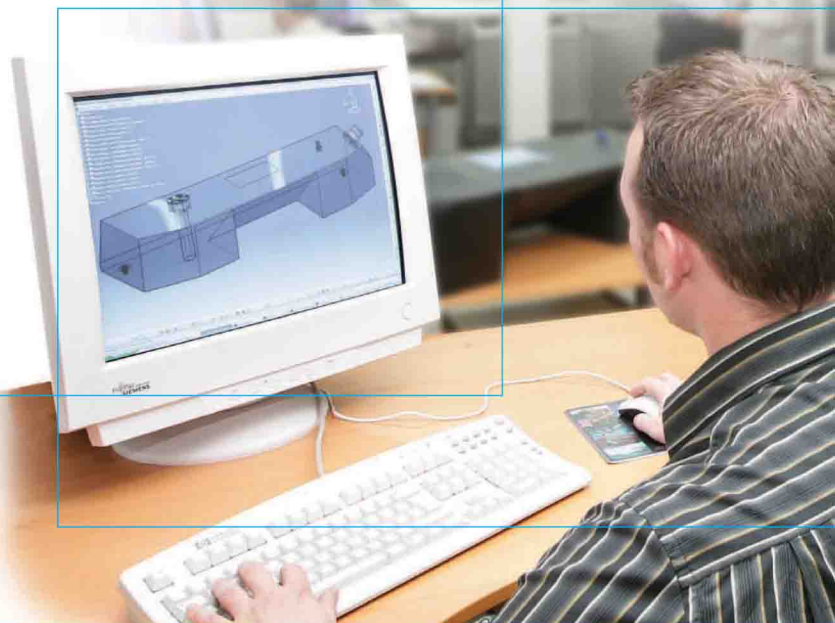
Because we are committed to innovative and customised responses, we provide support to our customers from initial contact through to installation on site (design, manufacture, installation, maintenance).

### ▪ Quality approach

Pronal is subject to strict quality procedures.  
ISO 9001 : 2008 accredited.

### ▪ Customer satisfaction-oriented values

- Proximity
- Flexibility
- Reactivity
- Mobility
- Creativity
- Quality



**Yourself, have you ever thought about elastomer to meet your requirements ?**



**Listening,  
understanding  
and designing**

### ■ Studies and Design

**PRONAL** carries out a study of your problem and proposes solutions which are adapted to your requirements

- Dedicated R&D teams and studies
- Use of state-of-the-art software (Catia)
- Over 50,000 products already manufactured



**Install,  
train  
and maintain**

### ■ Additional services

**PRONAL** coordinates on-site installation

**PRONAL** installs the product on site and trains your personnel in its use if necessary. You are also offered a regular maintenance service.



**Flexible materials can provide innovative, high-performance  
and customised solutions.**

**Get in touch with us !**

**[www.pronal.com](http://www.pronal.com)**

# A global and customised service offer

**PRONAL** offers its customers a full and modular range of services, from initial study to commissioning on site. Our technical expertise distinguishes us as a leading manufacturer.

## Assembling, vulcanising and welding

### ■ Production

**PRONAL** combines outstanding technical and industrial knowledge in the flexible products area

- Audited and certified raw material suppliers
- Innovative and effective assembly techniques and equipment: high-temperature vacuum vulcanisation, high frequency welding (small and large production runs), cutting machine.
- 2 production sites : Leers - France & Tunisia (33 500 m<sup>2</sup>)



### ■ PRONAL's technical advantages

- Large dimension products (tanks larger than 500m<sup>3</sup>)
- High-strength products (over 200 bar of pressure)
- Single-piece design of homogenous flexible products, incorporating metal accessories directly vulcanised into the main structure.
- Multi-process manufacturing: Hot and cold vulcanisation, High Frequency welding, sewing.
- Guarantees of an extended useful life (over 10 years in some cases)
- Flexibility: adapted resources from prototype manufacturing to long production runs.



# PRONAL worldwide presence

**PRONAL** has built a loyal network of worldwide partners, agents and distributors assuring a permanent presence serving an international clientele. Our intermediaries are supported by a dynamic sales/after sales team always willing and able to cater to your needs.

**PRONAL** is therefore able to export its solutions across the 5 continents, providing effective support, an adapted response and customised advice.

France/Export sales distribution



# PRONAL a solution adapted to your activity

With almost 50 years' experience, Pronal has acquired cutting edge skills in a variety of fields: defence, aerospace, safety, industry, environment and energy.

# PRONAL an efficient solution to your needs

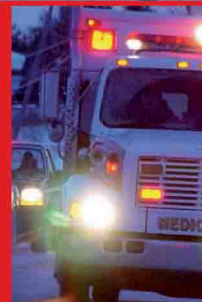
Whether you need to store, lift, seal or insulate, we can provide an adapted, reliable and customised solution thanks to our wide range of products: tanks, lifting bags, cushions, stoppers and compensators. Small or large production runs, standard or custom-made: we have the human, material and technical resources to meet your needs.



Defence



Aerospace



Safety



Industry



Environment



Energy



## Defence

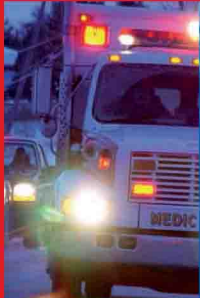
**PRONAL** offers perfectly adapted, full-service solutions in the field of fuel logistics and drinking water supplies for the armed forces.



## Aerospace

**PRONAL** designs and manufactures elastomer bodied flexible tanks for aircraft and helicopters. Production and maintenance approvals: PART 21 G and PART 145

**PRONAL** also produces lifting cushions for all types of aircraft, for emergency maintenance and interventions during incidents.



## Safety

To assist in the management of emergency situations, **PRONAL** has developed materials which allows rapid, effective and secure interventions. Civilian and Humanitarian security.



## Industry

Compared with traditional technologies, **PRONAL** offers a totally innovative and effective alternative in many industrial fields, through its standard and custom-made range of lifting bags, cushions, tanks, stoppers and compensators.



## Environment

**PRONAL** offers flexible solutions dedicated to risk prevention.



## Energy

**PRONAL** provides solutions for the construction, maintenance and operation of energy production facilities: off- and onshore, gas, nuclear and new energies.



▪ Storage tank (drinking water, fuel)



▪ Transport tank (land, air, sea)



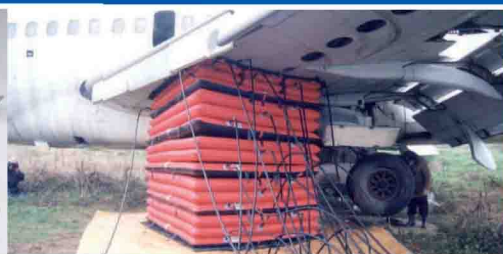
▪ Rollable and towable tank (overland or by air)



▪ Refuelling system



▪ Fuel cell and composites parts for drones



▪ Lifting cushion for aircraft



▪ Self-sealing and crashworthy tank



▪ Additional tank for...



▪ Drinking water storage tank



▪ Earthquake lifting cushion



▪ Tank for recovery of chemical effluent



▪ Pipe stopper



▪ Range of stoppers



▪ Pipe stopper for leak testing



▪ Range of hydraulic compensators



▪ Compensator for power transformer



▪ Range of flexible lifting bags and flexible cushions



▪ Mud storage tank



▪ Anti-pollution boom



▪ Anti-pollution stopper



▪ Rainwater recovery tank



▪ Anti-pollution



▪ Diaphragm closure for jacket legs



▪ Underwater flexible habitat



▪ Underwater lifting system



▪ Stopper for...





 **PRONAL**

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