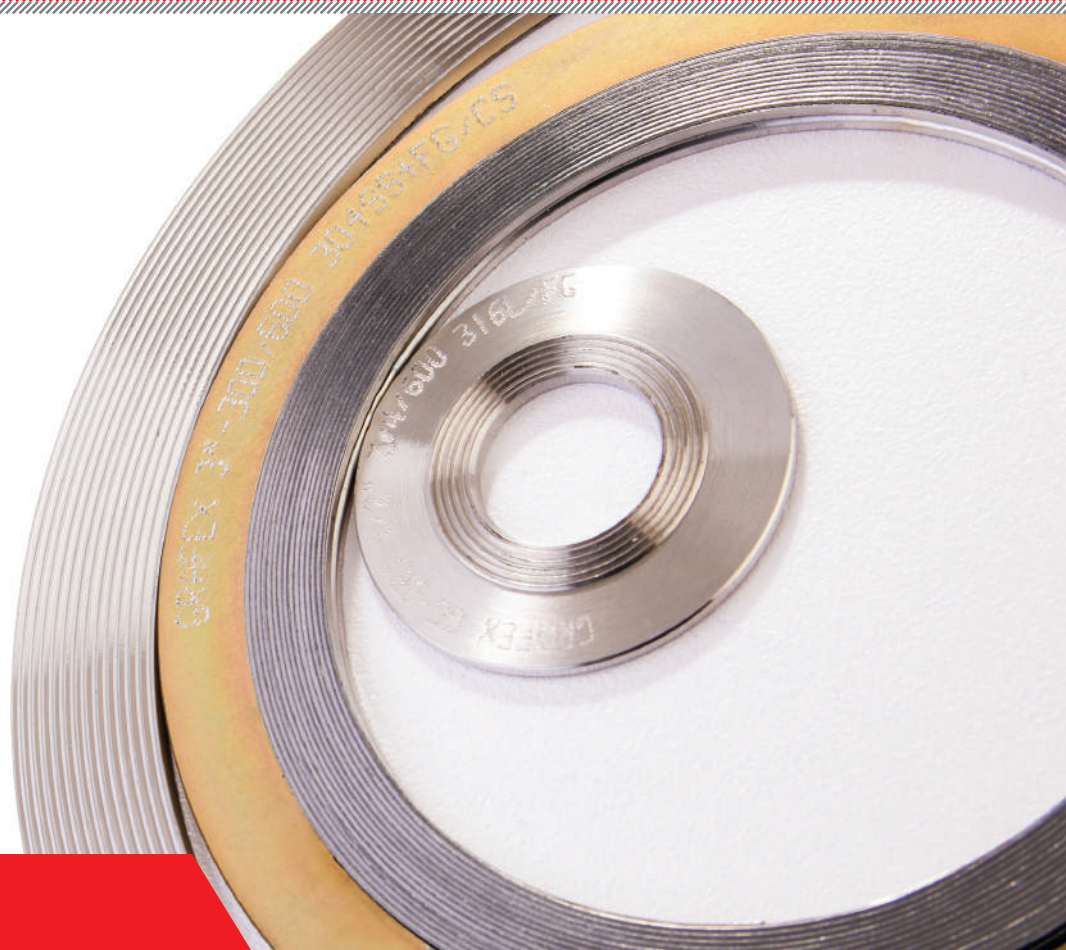


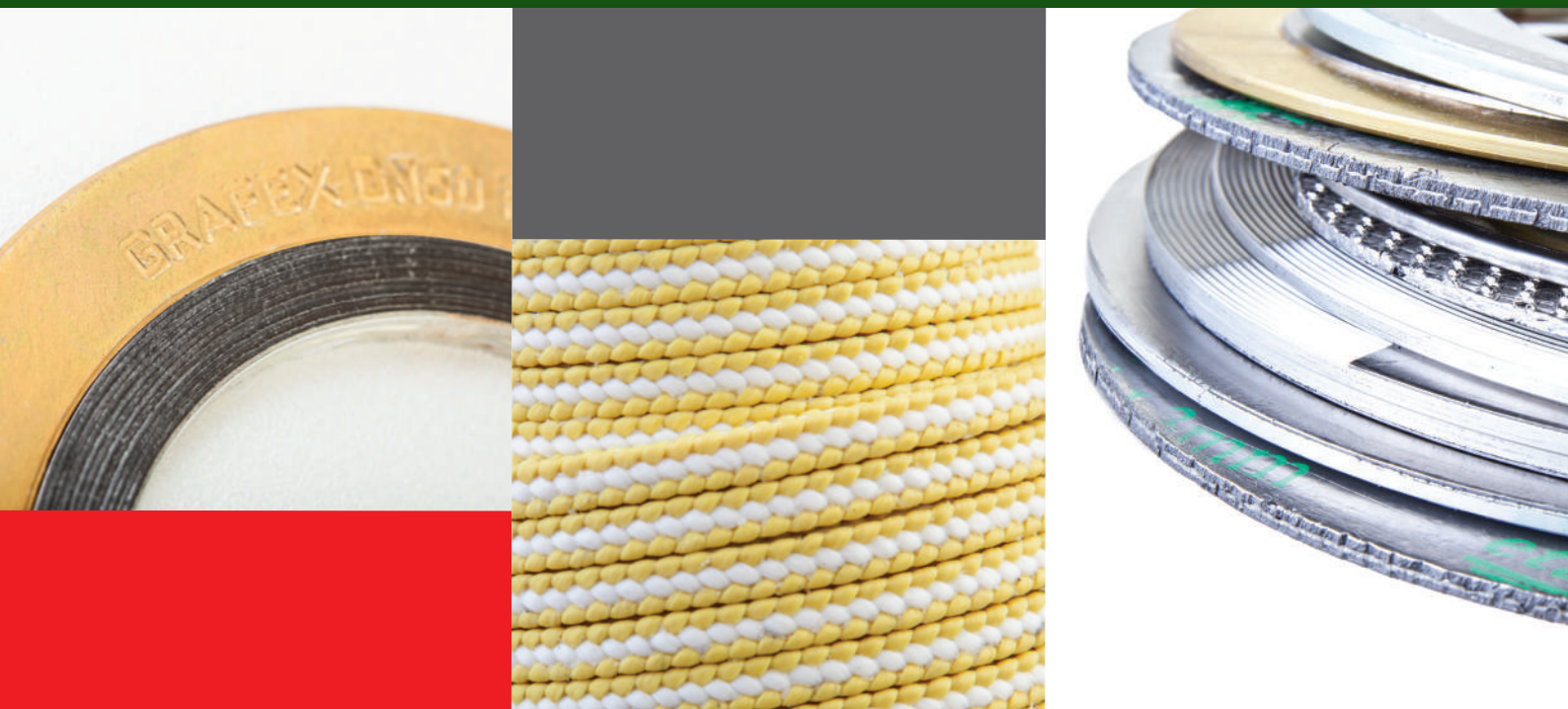


GASKETS AND SEALING PRODUCTS
MANUFACTURER

EXPERIENCE.
EFFICIENCY.
CUSTOMIZED PRODUCTS.



www.grafex.ro



ETANȘĂRI GRAFEX is a Romanian private company, gasket and asbestos free sealing products manufacturer for any application, from the most common to nuclear industry.

The company's development is based on our know-how and experience in this area and our constant concern to manufacture customized products, according to the requirements and appropriate to the application.

Our experience extends beyond the products we manufacture to the equipments and installations where they are used. We wish a complete collaboration in order to ensure a reliable solution, that will improve your performances at the highest level of quality and fiability.

3 SERVICE SUPPORT

4 GASKET SHEETS

Graphite sheets ○ PTFE sheets ○ Non-Asbestos sheets (AF) ○ Ceramic sheets ○ Rubber sheets

6 GASKETS

Flat gaskets ○ Spiral wound gaskets ○ Corrugated and grooved gaskets ○ Metal gaskets

8 BRAIDED PACKINGS

Graphite packings ○ PTFE packings ○ Aramid fiber packings ○ Other types of mineral and vegetable fiber

10 OTHER PRODUCTS

11 SERVICES

Mechanical processing ○ Welding services ○ Waterjet cutting ○ Heat treatments ○ Electrochemical zinc plating



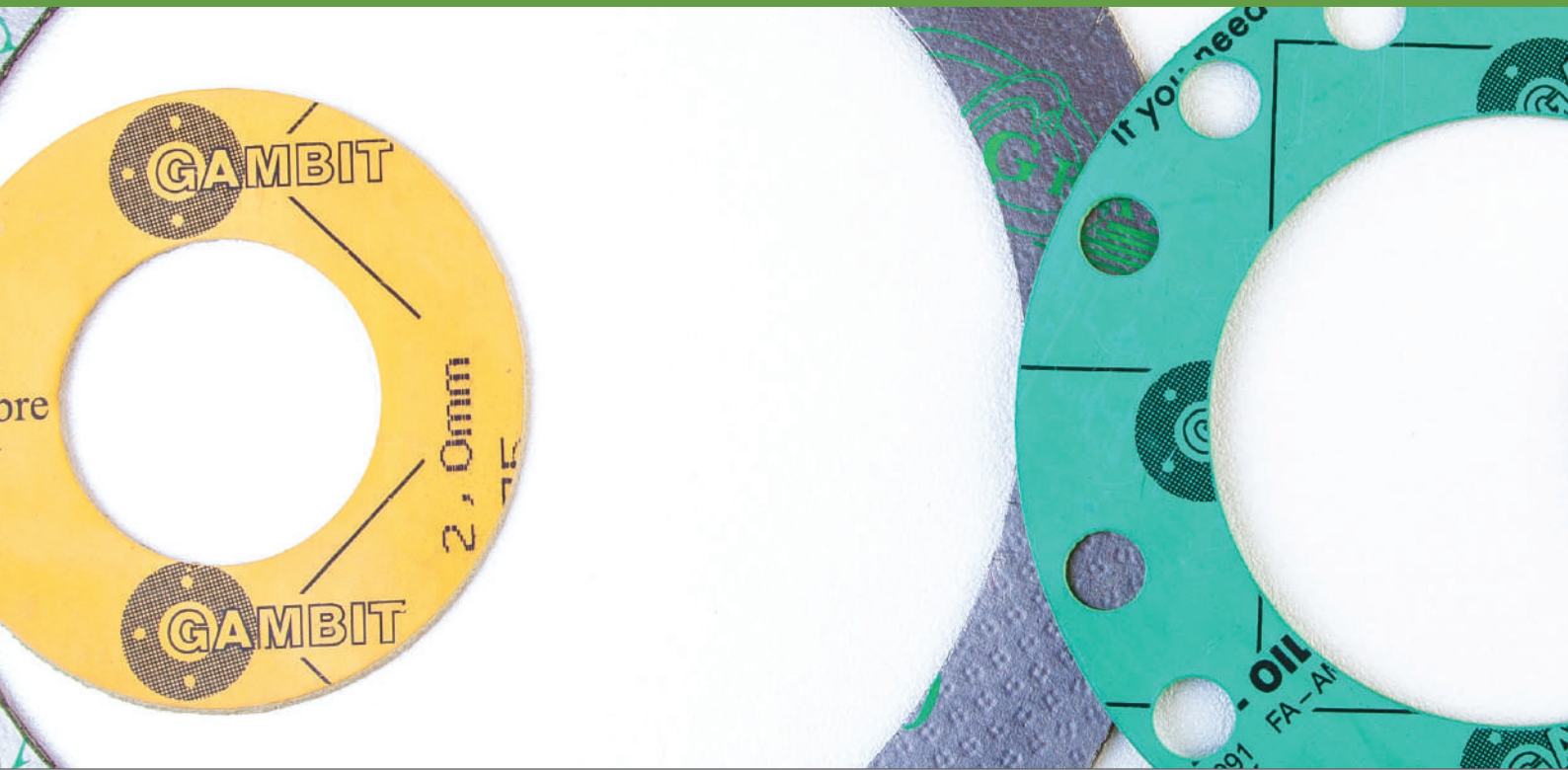
SERVICE SUPPORT

Before being gasket and sealing products manufacturer, we are experts in all matters relating to their applications.

Our mission begins with understanding our clients needs, so we can recommend the perfect product, or offer alternative solutions and custom made products. We maintain close contact with all our collaborators for obtaining permanently information on the performance of our products in order to constantly improve them.

Also, we offer our support in solving situations of extreme urgency, both in terms of manufacture as well as guidance from our experts on the concerned application.

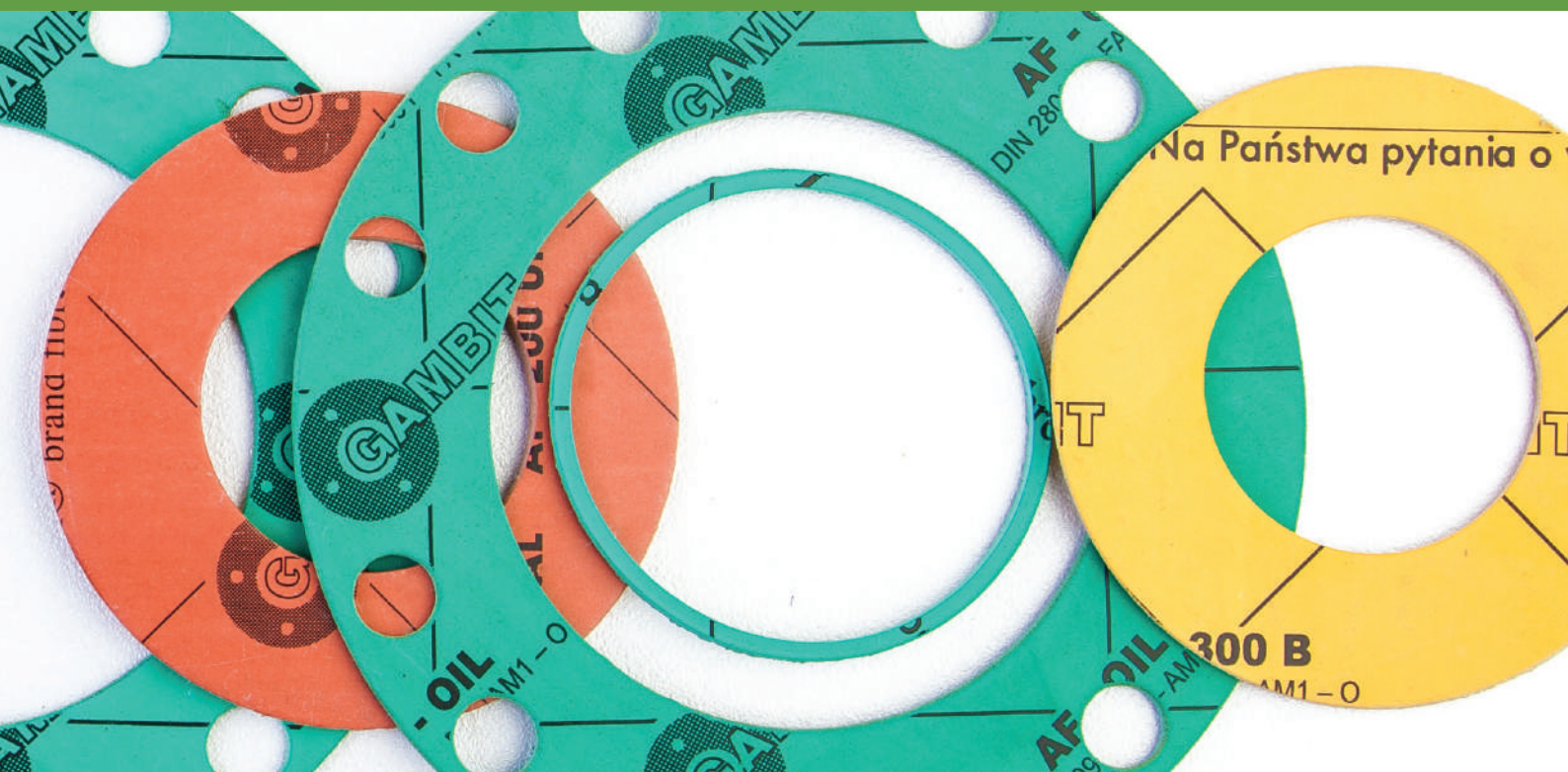
GASKET SHEETS



After choosing the right type of gasket sheet suitable for your application, this is processed by stamping or cutting, obtaining the desired flat gasket.

The gasket is chosen depending on:

- Temperature
- Pressure
- Sealed medium
- Other critical conditions



Graphite sheets

are manufactured by lamination, from expanded graphite with min 98% purity and can be reinforced (Grafex I980PI) or without any inserts (Grafex I980SR).

Aramid and mineral fibres mixtures gasket sheets

bound with NBR elastomers (AF 153, AF202 etc) are designed for a wide range of applications. Sheets are available, also with perforated stainless steel reinforcement or graphited on both sides.

PTFE sheets (polytetrafluoroethylene)

In order to improve its mechanical characteristics the Teflon may be additiveted with glass, graphite, bronze, mica etc.

GRAFEX GASKETS



Flat gaskets

are obtained by stamping or cutting the gasket sheets suitable for the application, according to the national and international norms, or in accordance to the internal norms of the client. Flat gaskets can also be manufactured with inner and/or outer jacketed stainless steel rings. Materials such as steel, stainless steel, aluminium, copper can be cut in order to obtain metal flat gaskets.

Grafoil Gaskets

are manufactured from expanded graphite in a variety of configurations and dimensions in accordance to the user demands. The grafoil gaskets are designed and manufactured depending on pressure, temperature and the type of sealed medium. The cross sections of the gaskets can be square, rectangular, trapezoidal, triangular or any other configuration according to the concerned application.

Spiral wound gaskets

are known as sealing elements widely used in refineries, chemical plants, installation of water treatment, etc.

We manufacture spiral wound gaskets with:

- minimum diameter: Ø15 mm;
- maximum diameter: Ø4000 mm;
- thickness: 2.5 mm; 3.2 mm; 4.5 mm; 6.4 mm; 7.2 mm;
- all configurations: simple, with inner ring and/or outer ring (Grafex GS; Grafex GSI; Grafex GCI; Grafex GC);
- various combinations of metallic materials (stainless steel 304, 304L, 316L, 321, Monel, Inconel, carbon steel) and non-metallic materials (graphite, PTFE, mica, ceramics);

Jacketed, Grooved and Corrugated gaskets

are mixed gaskets, used especially in heat exchangers joints and any other pressure vessels.

Jacketed Gaskets Grafex® JG

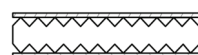
This type of gasket consists of a metal cover (carbon steel or stainless steel) and a soft sealing filler (mainly graphite).

Corrugated gaskets (Grafex® CG) and grooved gaskets (Grafex® GG)

are manufactured from a metallic support ring (having various thicknesses depending on the type CG or GG) covered with graphite, PTFE or mica, according to the application.



Corrugated Gaskets – Grafex® CG



Grooved Gaskets – Grafex® GG (Kammprofile)

GRAFEX® GS

GRAFEX® GSI

GRAFEX® GCI

GRAFEX® GC

GRAFEX® JG

GRAFEX® CG

GRAFEX® GG



BRAIDED PACKINGS

For many years the main material used for these braided packings was asbestos. Over time, because of its adverse effects on health, asbestos was replaced with materials such as graphite, Teflon, aramid fibres and other mineral and vegetal fibres, as well as combinations of them.



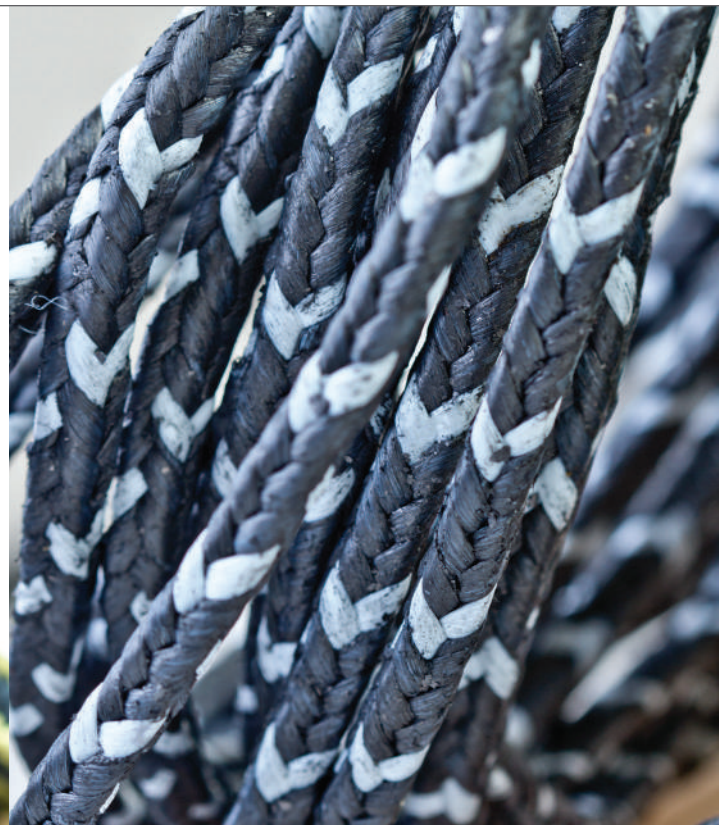
Although more expensive than asbestos, the new materials proved to be more economical. The lifetime of non-asbestos seals is far greater than the one of the asbestos, thus avoiding technological breaks for replacing the seal.

Braided packings are used, generally as sealing elements for stuffing boxes of pumps and valves in various liquid and gaseous mediums.

The main types are:

- Graphite braided packings, reinforced (Grafex® GA, Grafex® G2A) or unreinforced (Grafex® GS) and in various combinations with carbon fibers (Grafex® GS04);
- PTFE braided packings, pure (Grafex® T1, Grafex® T2) or graphited (Grafex® TG1, Grafex® TG2) with various impregnations;
- Aramid fibres braided packings (Grafex® A1, Grafex® A3);
- PTFE braided packings, reinforced with aramid fibres (Grafex® T1-A1, Grafex® TG1-A1);
- Braided packings made of various synthetic or natural fibres with different impregnations (Grafex® Acrylic, Grafex® Acrylic G, Grafex® RP1, Grafex® RG1);
- Ceramic fibres braided packings (Grafex® Cera, Grafex® CeraA) and glass fiber (Grafex® Glass);

Sealing packs are specific to stuffing box sealing and contain only die-formed rings from braided packings or various combinations of die-formed rings and braided packings. The main advantages of using sealing packs are obtaining a better seal, easier installation and lower costs by eliminating material losses at assembly.



GRAFEX® GA
GRAFEX® G2A
GRAFEX® GS
GRAFEX® GS04
GRAFEX® T1
GRAFEX® T2

GRAFEX® TG1
GRAFEX® TG2
GRAFEX® A1
GRAFEX® T1-A1
GRAFEX® TG1-A1
GRAFEX® Acryl

GRAFEX® Acryl G
GRAFEX® RP1
GRAFEX® RG1
GRAFEX® Cera
GRAFEX® CeraA
GRAFEX® Glass

OTHER PRODUCTS

Metal rings (R rings)

are designed for high pressure applications and are manufactured in all constructive versions (R,RX and BX).

PTFE products and other technical plastics

are manufactured in a wide variety of finite parts with applications in almost all industries.

Other graphite products

GRAFEX® corrugated strip

appropriate for on-site interventions for equipment maintenance without having to stop the entire system

Graphite Paste GA 120

used for dry lubrication of metallic surfaces subject to heavy working conditions.

Ceramic products

used mainly for static applications for insulation and sealing at elevated temperatures. They are provided as cords, sleeves, boards, fabrics and tapes according to the concerned application.

Rubber products (Viton, NBR, EPDM etc.)

are manufactured by injection methods, vulcanization and cutting out of rubber sheets, depending on configuration.

Electrical insulating kits

are manufactured from electrical insulating materials for protecting the flange from galvanic corrosion and electrostatic charging.

Friction linings

for industrial applications. Manufactured from highest quality non-asbestos materials so that they ensure operation at high parameters.

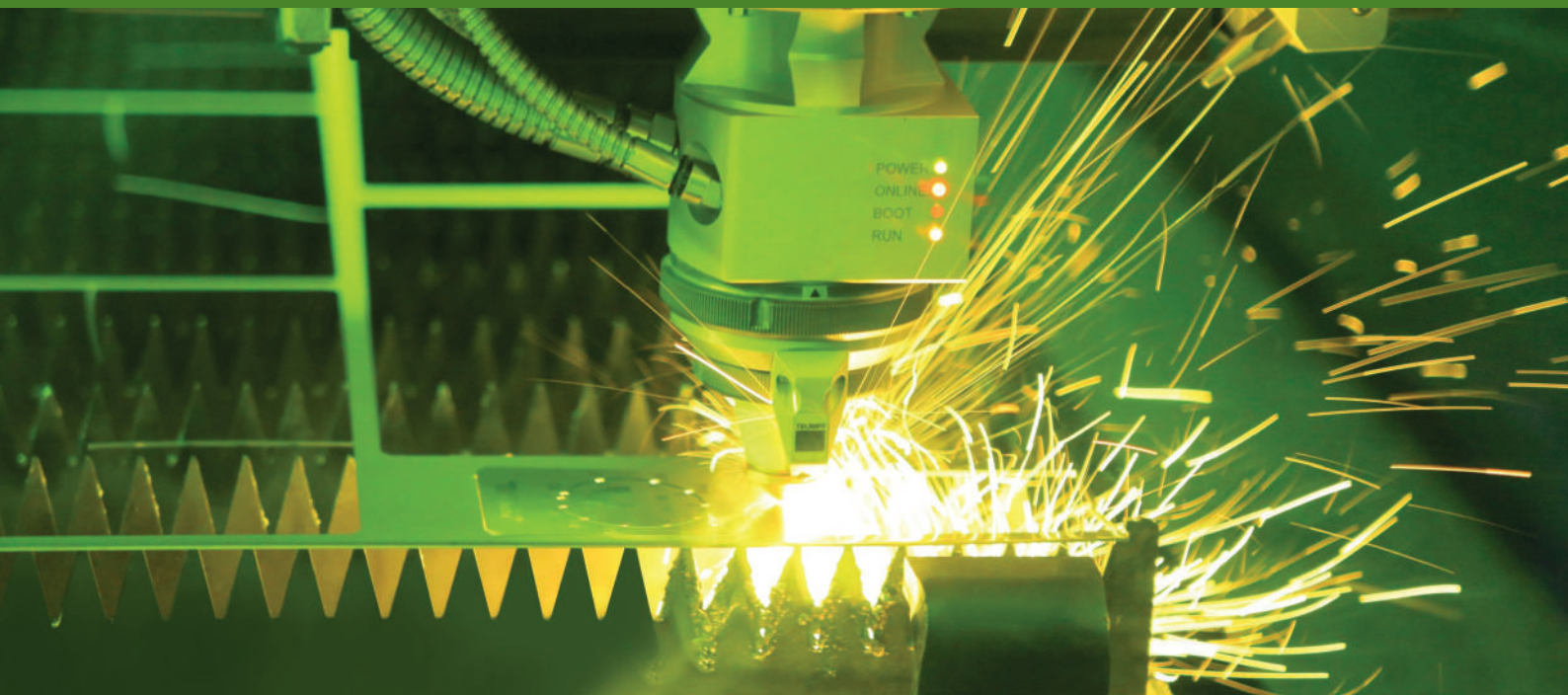
Adhesives and other seals

for binding various types of rubber, fixing the gasket on the flange, sealing paste, on-site manufacturing of gaskets from elastomers with vulcanization at ambient temperature.

Fabrics – PTFE coated or silicon impregnated

Are used to manufacture insulating covers or compensators, as protection for welding operations, curtains against fire and /or smoke, waterproof covers, protective suits and so on.

SERVICES



Technical assistance

Mechanical processing

Welding services

Professional waterjet cutting

Heat treatments

Galvanic coating

Die cutting and stamping

Valves repair

Industrial engraving

Metal constructions

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