



INDUSTRIAL & AERONAUTICAL SUPPLY

MILTECH
INTERNATIONAL

OUR HISTORY

1984

Creation of Miltech

1988

Certification by Airbus Helicopters for the manufacture of honeycomb structures

1994

Incorporation into the BMP Group, aeronautical subsidiary of the Bodet Group

1999

Creation of Miltech International

2003

Miltech International becomes 100% independent. It is held by the HEIM family.

2004

ISO 9001 and EN 9100 certification

2005

Starting of Plasti Dip activity

2007

Launch of the website www.plastidip.fr, B2B dedicated sales site

2009

Move to the current premise in Gagny

2015

Creation of an internal design office

2016

Certification by Airbus Helicopters as a distributor

2017

EN 9120 Certification



MILTECH INTERNATIONAL IS SPECIALIZED IN INDUSTRIAL SUPPLY, MANUFACTURING, AND PROJECT MANAGEMENT OF PARTS OR SUB-ASSEMBLIES, TO RESPOND TO THE EXPECTATIONS OF OUR SUPPLY-CHAIN CUSTOMERS (MRO, OEM...) AND/OR DESIGN OFFICES.



We sell standard products (according to specifications) such as:

- Standard fasteners (screws, washers, circlips, nuts, rivets, bolts, plugs, bearings...)
- Raw materials and alloys: nickel, cobalt, titanium, honeycomb...
- Chemical ingredients; glues, solvents, acids, adhesives...

We can also produce your parts according to your drawings or your specifications.

Our know-how also makes us a “specialist of the special”.

Our design office develops the project after studying and analysing the customer's problem. It draws up and sends the route sheet to our workshop for making the part.

We are certified ISO 9001 / EN 9100 / EN 9120.



AERONAUTICS



AEROSPACE



MILITARY



NAVAL



PETROCHEMICALS



INDUSTRY

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AERONAUTICAL FASTENERS

Assembly, disassembly, fastening

WE SUPPLY SCREWS, BOLTS, NUTS

Fasteners as per the standards AN, NAS, MS, BAC (American specifications), Fasteners as per the standards NFL, DIN, ABS, NSA, ASNA, EN (European standards).

SCREWS

Countersunk head, flat round-head, round head, or sheet metal, we can also supply special screws and all types of fasteners compliant with the standards BACP or PSC.

BOLTS

Of all types: hex head, countersunk head, round head, Allen bolts, eye-bolts or Visulok; but also special bolts and bolts compliant with the standards MA or BACB.

NUTS

Hexagonal, hexagonal lock nuts, double hexagon, rivet nuts, clip nuts or cage nuts. Also nuts in compliance with the standards NS or BACN.

We can also supply fastener references through distributors or directly from the manufacturers.



MATERIALS

The fastening, fastener, nuts and bolt products can be machined in different materials:

Steels: 35NC6, 30NCD16, XC38...

Stainless steels: Z2CN18-10, Z10CNT18-10, Z30C13...

Steels and special materials: titanium TA6V, Inconel NC19FeNb, aluminium AG3, bronze...

SURFACE TREATMENT

We can also have performed, any type of heat treatment depending upon your specifications and in numerous coatings: Cadmium coating, galvanizing, phosphating, burnishing, passivation, chemical oxidation, silvering, titanium oxidation...



CIRCLIPS

They are used for holding in translation, a bore by locking in an internal throat or a shaft by blocking in an external throat.

CIRCLIPS

- Basic Internal Circlip
- Bowed Internal Circlip
- Bevelled Internal Circlip
- Inverted Internal Circlip
- Basic External Circlip
- Bevelled External Circlip
- Inverted External Circlip
- External Circlip
- Spiral External Circlip
- Bowed External Circlip
- Crescent Type Circlip



RINGS

We can provide you with several ring and circlip references meeting numerous specifications (European, American, Imperial, Metric).

RINGS

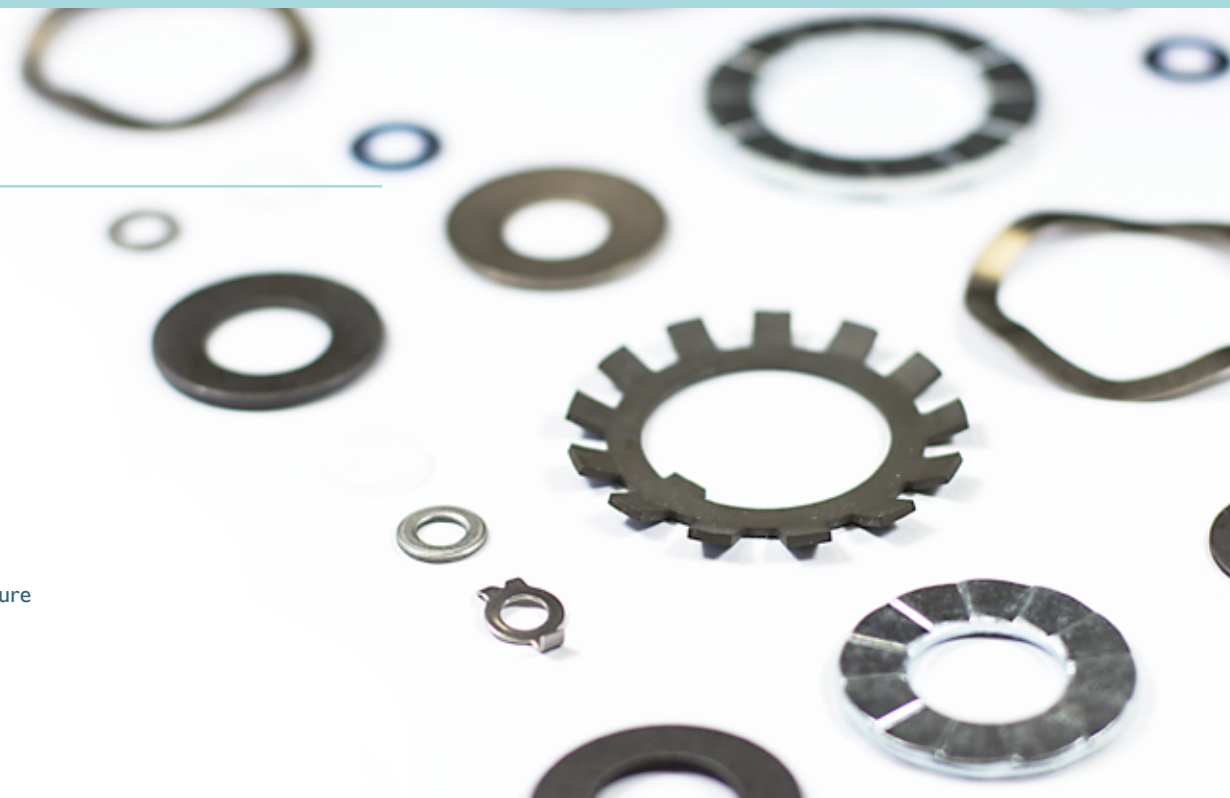
- Internal Round Wire Ring
- Plain External Ring
- External Snap Ring
- Internal Snap Ring
- "E" Clip
- Reinforced "E" Clip
- Kliprings
- Bowed "E" Clip
- Push-on fix
- Reinforced Push-on fix

WASHERS

Assembly, locking, safety

WASHERS

Flat
 Nord-Lock®
 Disc-Lock®
 Spring
 Shims
 Belleville
 Lock
 Grower
 Plastic
 Rubber
 Elastic: locking / pressure



GROOVED NAILS, RIVETS, PINS

Assembly, locking, safety

GROOVED PIN

The pins which we can offer you are standardised principally as per the standards ISO 8740, 8744, 8745...

GROOVED NAIL

The principal standards for splined nails available are the standards ISO 8746 and ISO 8747.

GROOVED RIVET

The principal standards available are DIN 660, 661, 674.
 We can also supply you with special custom rivets.



BALL BEARINGS AND BEARINGS

Material, hardness, accuracy

BALL BEARINGS

The materials used for ball bearings are chosen depending upon the applications and the sectors:

- From 1/10th of a micron to one-half mm
- Materials like: bearing steel (100Cr6), carbon steel, stainless steels, ceramics, tungsten carbide, plastics, bronze, aluminium...

BEARINGS

We offer a large range of bearings, guides, to meet the needs of customers (Bearings: ball, tapered, needle, roller...)



SEALING

Waterproof coatings, protection

SEALS

We can supply gaskets with different mixtures of rubber, standardised as per NFL, ABS, NAS, MS...

Upon request, we could offer materials designed to meet all the requirements of aeronautical applications.

We can also guarantee exceptional resistance to temperatures, chemical products and pressures, while preserving their integrity in the most critical aerospace environments.

We offer a size range from 0.5 to more than 900 mm, interior diameter and from 0.5 to 20 mm of outer diameter. We are able to supply unit packaging (as per NFL I7103) or depending on the needs of the customer.



RAW MATERIALS AND ALLOYS

We are able to supply raw materials in all forms

ALLOYS

We meet the European standards as well as specific standards such as AMS, ASNA, CR, NCT, NFL, STF...

Some examples:

Steel alloys & stainless steel

Copper alloys, bronze and brass: CuAl, CuBI, Brass, Bronze, CuAl10, CuBe2

Nickel based alloys: Inconel, Nimonic, Hastelloy, Waspalloy,...

Titanium alloys: TiAl6V, Ti6Al-4V, 6-4, CP-4...



HONEYCOMB STRUCTURES

Assembly, disassembly, fastening

INSERTS AND HONEYCOMB PARTS®

Miltech International is able to supply aluminum Honeycomb, as plates or machined parts according to your drawings. However, our speciality is the fabrication of parts in high density Higrd 55 aluminium Honeycomb, most particularly for producing components.

ALUMINIUM HONEYCOMB®

The aeronautical category aluminium Nidabaille® parts, offered by Miltech International, are very light. Military quality, they are anti-corrosion treated and offer greater resistance than classic aluminium alloys.

Two alloys are offered, both meeting the requirements of the standard MIL-C-7438:

In 5052 aluminium alloy

In 5056 aluminium alloy



CHEMICAL INGREDIENTS

Adhesives, glues, sealants, solvents

THE PRODUCTS

Our chemical products are approved for aeronautical construction, maintenance and repair for assembly applications, sealing of threaded couplings, thread locking so as to avoid loosening of parts subject to vibrations...

For interior and exterior aeronautical applications or in maintenance workshops, we offer:

- Glues
- Epoxy resins
- Adhesive hardeners
- Tapes
- Sealants
- Solvents
- Paints
- Oils



ELASTOMER PAINT

Cover, Protect, Insulate

PLASTI DIP

PLASTI DIP is a synthetic rubber elastomer paint which resists mould, acids, abrasion, weather, electrical arcs and corrosion.

PLASTI DIP is a reversible elastomer coating which is used to cover, protect, seal, identify, insulate, weatherproof...

Applications:

PLASTI DIP elastomer paint is applied with a paintbrush, by dipping or by spraying on all type of substrates and materials. It has a satin appearance and the result is slip proof and very pleasant to the touch. Flexible and supple, it does not crack.



PLASTIC MULTI-FASTENERS

Blocking, tightening, panel fastening

PLASTIC MULTI-FASTENERS

Miltech International is a supplier and manufacturer of plastic fasteners, mainly used in the automotive field.

We can supply:

- Plastic rivets
- Cable management
- Pine tree clips
- Straps
- Clips
- Quick ties
- Caps
- Connectors...

We have a standard parts range mainly available in Nylon 6.6 in black, white and natural colours.

We can also produce a specific part or a non-standard colour... Contact us!



BUMPERS

Absorptions, stops, foots

BUMPERS

Square, rectangular, round, thick, thin shapes with a special adhesive. We are able to supply the stop which best meets your applications.

Rubber bumpers or stops are available in two materials:

PVC and urethane:

- CYLINDRICAL BUMPERS
- HEMISPHERICAL BUMPERS
- SPECIAL BUMPERS
- SQUARE BUMPERS



MIFLON

A solution for solving your friction problems

MIFLON

Milflon® is a fluoropolymer containing PTFE (polytetrafluoroethylene). Specially designed by Miltech International (Registered trademark), it is a self-lubricating synthetic composite material. It has many intrinsic properties, however it does not contain any hazardous substance and is compliant with the ROHS directive.

Numerous advantages:

Milflon® is self-lubricating

Milflon® resists corrosion

Milflon® is resistant to vacuum and to large thermal swings

Milflon® provides substantial savings



SILICONE SLEEVES

Shrinkable, resistant, protective

SILICONE SLEEVES

OSS Grade

This synthetic elastomer is compliant with the specifications BS 2848 T5, CLASS 180 T and BS 3858 T. This material has high resilience and elasticity. It keeps its flexible properties even at extreme temperatures.

OSF Grade

This high resistance silicone is compliant with the standard BS 3G198, Part I, T 4. FABsil silicone has high resistance to traction and to heat. It can even be used intermittently up to a temperature of 250°C.

These references exist in:

Black, brown, red, orange, transparent, yellow, green, blue, purple, grey, white and pink. Other sizes are available on order. We can deliver them to you as a continuous length or in the form of sleeves depending upon your specifications.



ROLLING DIAPHRAGMS

Perfect sealing in piston systems

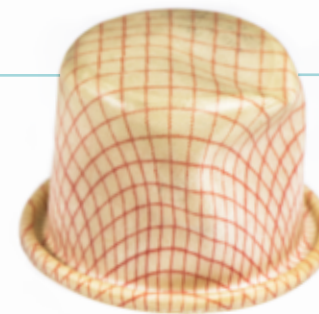
ROLLING DIAPHRAGMS

Rolling diaphragms are flexible devices for regulating fluids. They are used to provide perfect sealing in all systems involving a piston and a cylinder.

They are made of an elastomer / cloth combination and can be in any shape or any size.

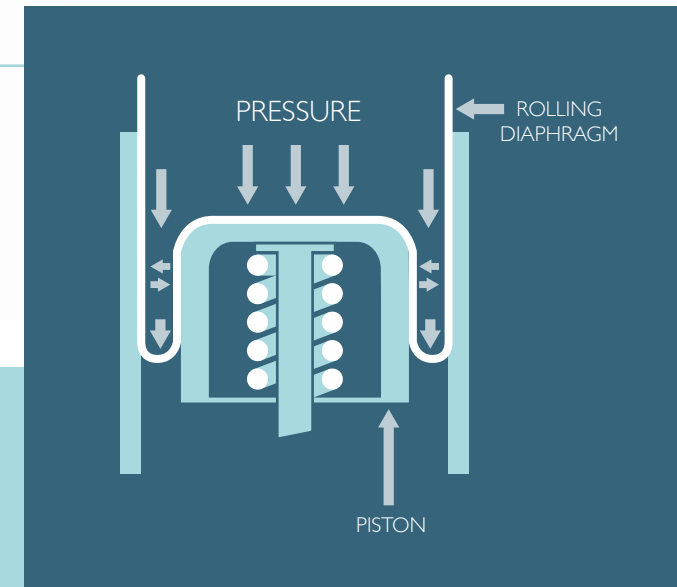
Numerous advantages and applications:

- Rolling diaphragms have numerous advantages for measurement and monitoring equipment in hydraulics and pneumatics, such as for example, control cylinders or geothermal pumps.
- The diaphragms which we manufacture are ideal for systems which must react to the smallest pressure variation.
- They are resistant to very high temperatures (up to 315°C) and all types of products (oil, ozone, alkalis, vapours, etc.).
- Providing sealing
- Solidity and resistance
- Hygiene in the food products industry



HOW DOES IT WORK?

The diaphragms roll up and unroll from the piston to the cylinder depending upon the movements caused by the pressure.



PROJECT MANAGEMENT

We can also produce your parts according to your drawings or your specifications.

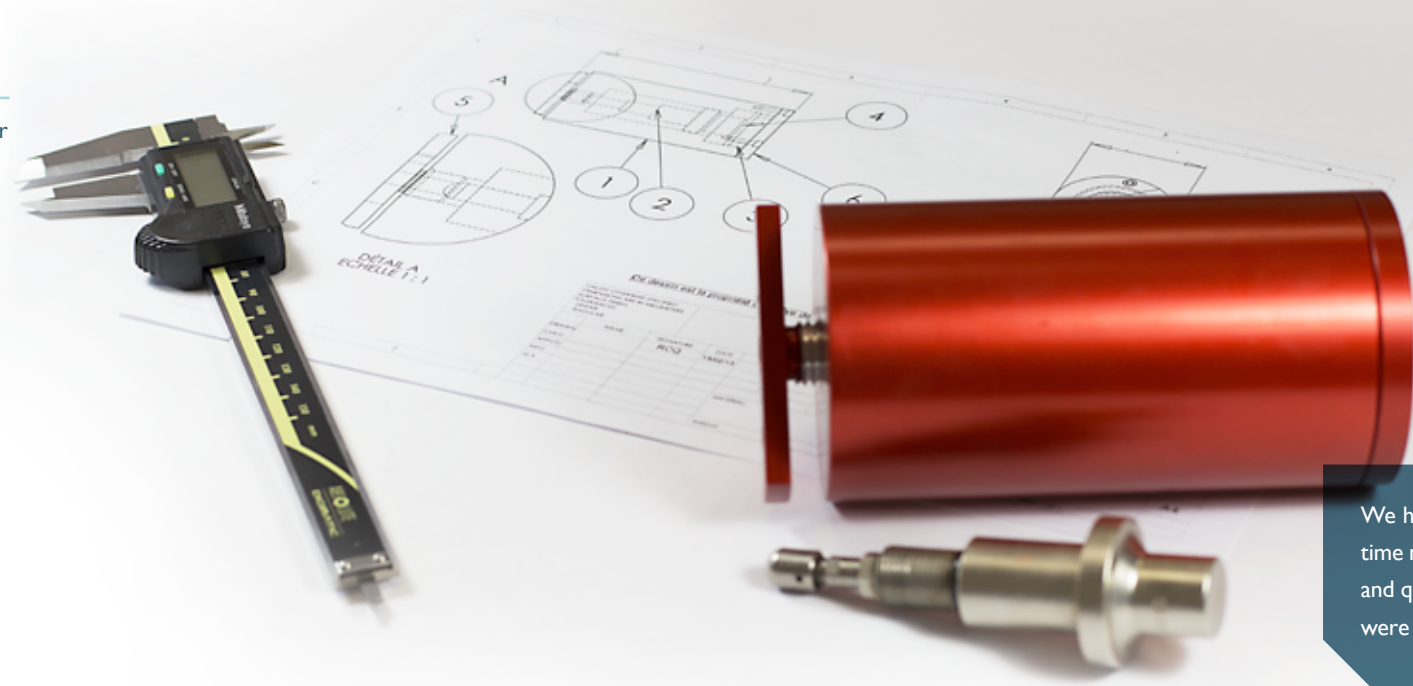
STUDY, DEVELOPMENT AND FABRICATION

Our design office offers solutions to respond to the feasibility of your problem in terms of fabrication by:

- Cutting, stamping...
- Ironworking, forging...
- Sheet metal work, screw-machining, precision mechanics, machining
- Mechanical sub-assemblies
- Heat treatment
- NDT, surface treatment, painting
- Assembly
- First article inspection report...

The advantages of our offer:

- Incorporation of manufacturing data as of the design
- Limit in the number of middle men
- Economies of scale
- Design study to lower manufacturing costs and lead-times



Project management, our watchwords:

- Problem
- Engineering
- Fabrication
- Quality control
- Customer satisfaction

Coming from technical professions and the manufacture of custom parts, our design office relies on its experience to meet your need.

We have fabricated a part from drawings dating from 1956. The know-how at that time no longer being recognized, our first priority was the identification of materials and qualified sub-contracting. In collaboration with the customer's design office, we were able to meet all the requirements called upon by the drawing.

3D PRINTING

A 3D printer for validating prototypes and the printing of small tools

LATHING

4 computer controlled lathes Ø250 à 650 mm LG I M

MILLING

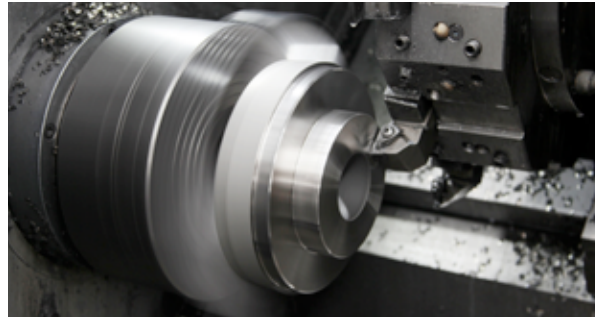
1 x 4-axis machining centre - with CAM and milling equipment

GRINDING

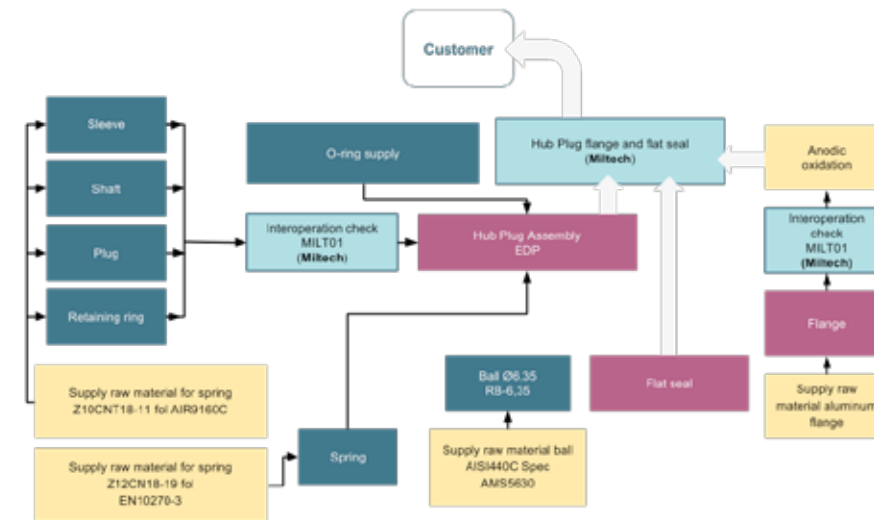
- Universal grinder 1 metre point length - HP 140
- Flat grinder 650 x 230

MARKING

Micro percussion



ASSEMBLY



- In a very short time, we can produce small size, assemblies and sub-assemblies (up to 200 mm in diameter)
- Miltech International can meet the challenge to deliver an assembly according to the flow chart opposite, within two weeks.
- We have learnt to be adaptable and flexible as some plans are not frozen by the customer's design office while the part is being machined.

**Miltech international,
your development partner.**

MILTECH

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