



adhésion bellows
 membranes moulding joints
 giunti MODELLO Blasebälge

NEW DEVELOPMENTS



GLOBAL OFFER

EFJM is specialized in the design and development of sealing systems for the aeronautical, military and pneumatic fields, as well as packaging machines for liquid, viscous and pasty products.

These sealing systems are customized according to customer specification and comply with the requirements of their environment.



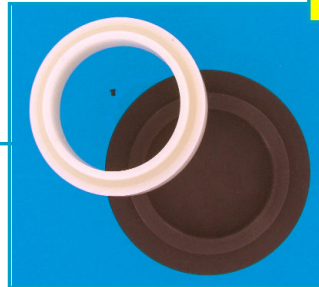
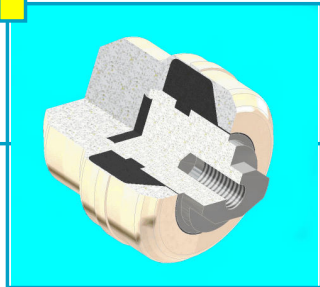
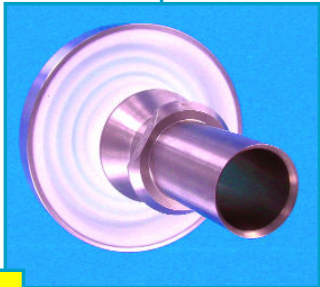
CONTROL OF ELASTOMERS

The R & D team offers its expertise and experience to solve all sealing problems:

- PTFE/rubber/stainless steel composite pistons
- PTFE/rubber/stainless steel liners
- PTFE/composite guiding seals
- dosing membranes by deformation

The optimum utilization of sealing systems in their work environment will depend on the quality of the elastomers. EFJM has developed rubber formulas specifically adapted to the utilization of the end product and has a laboratory with the equipment required to control the physico-chemical characteristics of the elastomers. It maintains an on-hand stock to effectively and promptly satisfy the different specific requests of customers.

Rubber is a mechanical building material with viscoelastic properties which we use to give to PTFE a "spring" effect so that it can keep the friction area (lip) in contact with the lining.



EFJM, News



Working with a small team is not due to strategic positioning but rather the result of a special organisation pattern. We are a design & engineering office with a production workshop. Devising solutions at the boundaries of technology represents always a risk; producing them under acceptable economic conditions is

an indisputable asset. Performing at this high level every day (day in day out) for more than 35 years has brought explicit figures: over 200 new products a year, 20% of our turnover comes from products less than a year old.

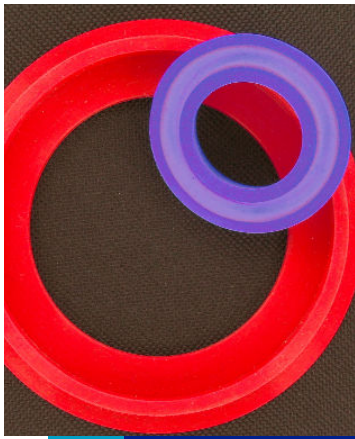
SPECIALIST IN THE DESIGN AND DEVELOPMENT OF SEALING FUNCTIONS

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New developments



Our research and development team, which designs sealing solutions, creates a new product every day:

Bonded sealing cover on a metal support

This part protects a mechanical joint from sources of pollution in its working environment. The latter can cause deterioration to its surfaces subjected to friction, making it necessary to replace it frequently, which is costly. Prior to modification, once the problem identified, the degraded system creates unacceptable noise levels for its users.

EFJM has designed a cover to ensure cleanliness which contri-

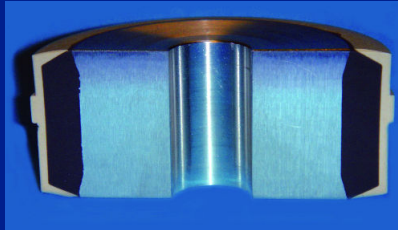


butes to the decisive improvement of the joint's operation and its lifespan when subjected to extreme angular positions.

The problem is identified by users complaining about the noise levels generated by a degraded

system.

EFJM, consulted to design and develop a shield, has contributed to the decisive enhancement of the operation and service life of the coupling. This required providing for the anticipated operation



of the shield in extreme angular positions.

Pistons for dosing rillettes

The rectilinear movement of a piston in a sleeve enables a volume to be formed: equivalent to one dose of rillettes!

It is no longer necessary to recall the serious consequences of a lack of control of the asepsis conditions in this field. Our Germany-based customer who is sensitive to the requirements of this market naturally trusted the "EFJM" solutions.

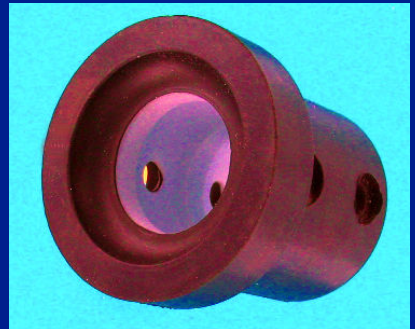
In this type of application, the problem for our R&D team is to be capable of applying our design rules dictated by the viscoelastic performances of the deformable area combined with the plastic and tribological behaviors of the friction area in a restricted volume

set by the customer. Our large base of experience and the wide variety of materials conforming to regulatory requirements are for our customers the assurance of a rapid fine-tuning often directly on the production lines !

PTFE coated fittings

To ensure tightness on a control rod while developing "vapor barriers" for a very high asepsis level, our customer, a manufacturer of equipment for food packaging, turned to us for our competences in the PTFE adherization field.

The problem with this type of pro-



duction is to be able to make a PTFE layer with a thin, complex form. The thinness which allows obtaining a sufficient reactivity from the elastic deformation area to small stress amplitudes is a technique described by one of our oldest patents.

EFJM IN NUMBERS

Year	Turnover € Millions	Manpower
2006-2007	2,500	22
2005-2006	2,300	20
2004-2005	2,200	19

Annual investment on revenues: 10 %

Clientele structure per market:

- | | |
|-----------------------------------|------|
| 1 Food/agriculture | 55 % |
| 2 Pneumatic (jacks, distributors) | 20 % |
| 3 Aeronautics/military | 10 % |
| 4 Miscellaneous | 15 % |

