



adhésion
membranes
giunti
bellows
moulding
rubb
plastometer
MODELLO
joints
COMMA
Blasebälge

INNOVATION



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.

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

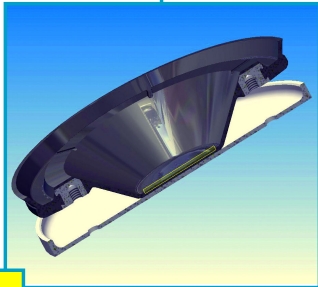
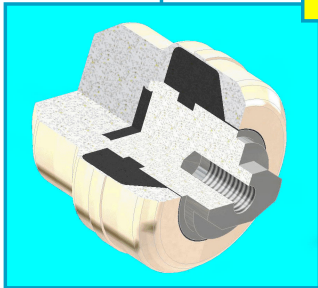
- PTFE/rubber/stainless steel composite pistons
- PTFE/rubber/stainless steel liners
- PTFE/composite guiding seals
- dosing membranes by deformation

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.

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

CONTROL OF ELASTOMERS

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.



EFJM, News

EFJM was created in 1964 from an idea : associate the science of frictions to that of tightness. This simple approach was entirely dedicated to the needs of a clientele satisfied with the performances of

rubber seals, but deploring the high friction coefficients of the materials. So, we started as a company by innovating and applying innovation to the service of your requirements, and continue to do so.

SPECIALIST IN THE DESIGN AND DEVELOPMENT OF SEALING FUNCTIONS

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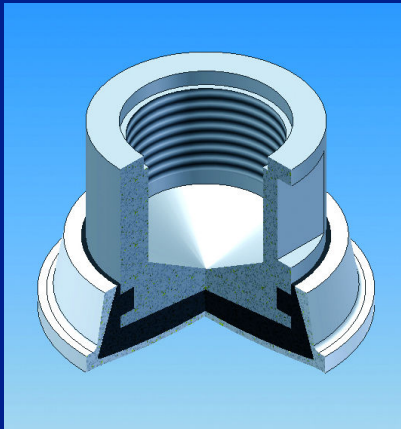
Innovation



700 developments a year. EFJM is implementing an active policy in terms of innovation: totally aseptic dosing pistons,

suckers for snowboards, and silicon that can withstand the most drastic sanitation conditions.

We have lodged a patent describing a dosing piston with a dosing product contact zone which consists of a type of PTFE, free of any discontinuity up to the sealing lip.



This device enables an elastomer to be used that offers higher mechanical performance. We have not forgotten the economic aspects; this concept is more compact, uses less material and is quicker to replace.

Currently, snow boarders are testing a new fastening method involving a sucker between their shoes and the board. These suckers, which were designed



and prototyped by our R&D team, offer outstanding characteristics: multidirectional tear strength of 300 kg, independence of the sealing lip, a dynamic vacuum reserve, good performance in cold conditions, a very high adhesion coefficient, vacuum maintenance, and a filtration and shock absorption effect...

The food packaging industry

develops in response to sanitary accidents.

Inventiveness in order to reduce risks, both in terms of systems as well as in terms of sanitation products, is applied continuously.



EFJM has always had to redouble its efforts in order to propose solutions offering greater strength without departing from regulations concerning materials in contact with foodstuffs. The combination of thermal and chemical constraints led us to seek out a type of silicone rubber likely to withstand paracetic acid.

EFJM: R&D IN NUMBERS

Year	Budget in k€	Manpower
2006-2007	420	4
2005-2006	410	5
2004-2005	400	5

The developments: up to 700 a year

R&D distribution per activity:

- 1** Food/agriculture 60 %
- 2** Pneumatic (jacks, distributors) 30 %
- 3** Aeronautics/military 10 %

