



*Your Total Sealing Partner*

*www.gapigroup.com*

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# Presentation

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GAPI GROUP HeadQuarter - Italy

# Milestones

- 1962** First establishment of **GALIZZI PIERINO**.
- 1969** Establishment of **GAPI s.r.l.**
- 1980** Development of rubber injection molding systems. Industrialization of O-ring surface finishing.
- 1981** Development of standard programs for O-ring and shaft seals.
- 1986** Accomplishment of stocking of 3500 dimensions of O-ring according to Standard specifications.
- 1987** Establishment of **GAPI USA Inc.**, buyout of **MIROS s.r.l.** and **MACMA s.r.l.** (parts in polyurethane)
- 1990** Buyout of **LANZA Nuova S.p.A.** and **MG s.r.l.** (PTFE completes the Group product program)
- 1991** Construction of the first GAPI logistic center in Italy to improve customer servicing.
- 1994** Establishment of **GAPI GmbH** Germany. Starting of a rubber compounding department.
- 1998** Establishing **GAPI Ltd** by merging a branch of Polypenco/DSM (Paste extruded PTFE tubes). Buyout of **ROLF S.p.A.** ( Specialized in Rotary shaft seals).
- 1999** Buyout of **PRADELLA & MATEGO S.p.A.** (designer and manufacturer of special toolings for rubber molding – molder of special rubber seals). Merging of a branch of Polypenco/DSM into GAPI GmbH (PTFE finished parts) Creation of a 2nd logistic center **GAPI Europe s.a.** in Luxembourg to strengthen service to european customers.
- 2009** Buyout of **ARTIC SEALS s.r.l.** (designer and manufacturer of hydraulic & Pneumatic sealing systems).
- 2010** Buyout of **Fluoril** (PTFE finished parts) to completes the Group product program.
- 2012** Establishment of **GAPI Sealing System**; distribution center in Spain (Madrid).



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# Strategy

***GAPI GROUP sells standard products to distribution.***

***Strategy is based on service guaranteed by an unmatched availability of material from stock: GAPI GROUP stock is likely the most important worldwide with more than 13.000 Items ready for sale and three dedicated locations for PTFE distribution.***

***GAPI GROUP sells to OEM customers made to order products , mainly through the affiliates companies Rolf S.p.A., Pradella & Matego S.p.A., Gapi Technische Produkte GmbH and Artic Seals.***

***In the sealing sector GAPI has such a complete range of products , materials and technologies that only international groups several times larger are able to duplicate: this means short time to answer customer requirements and the possibility to offer a wide array of solutions.***

*GAPI S.p.A. - Logistic Center - Italy*



## Strategy

***GAPI GROUP is an integrated Group, its core business being the sealings sector in elastomeric material and plastics.***

***O-Rings, rotary shaft seals and other standard seals, manufactured in a variety of elastomeric compounds and warehoused especially as NBR and FPM, by far the most widely used ones.***

***Seals and engineering products made to order, always in elastomeric material, for the general industry, with the automotive sector being the most important.***

***Standard seals made out of high performance plastics (PTFE, polyurethanes) as well as PTFE basic shapes for general industry applications.***

***Seals and engineering products made to order of high performance plastics (PTFE, polyurethanes, Torlon ®) mostly for the automotive industry.***

***Seals and engineering products produced in Polyurethan and Thermoplastic material mostly for Hydraulic and Pneumatic application.***

*TORLON ® is a SOLVAY trademark*



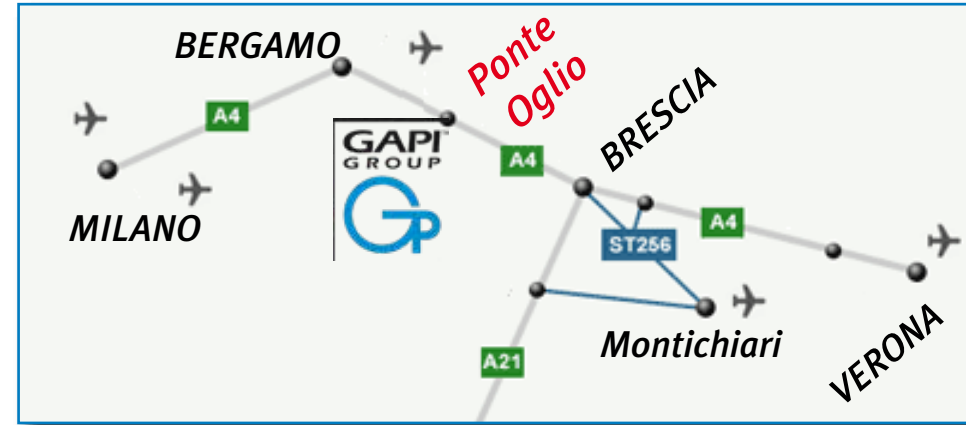
*GAPI S.p.A. - Logistic Center - Italy*



# Group Companies

Group Companies	Location	Employee	Logistic	Rubber	PTFE	Technopolymer/ Polyurethane
GAPI S.p.A. HeadQuarter	Italy	37				
GAPI S.p.A. Logistic Center	Italy	14	●			
GAPI S.p.A. Logistic Center (Miros)	Italy	9	●			
GAPI S.p.A. Rubber division	Italy	129		●		
GAPI S.p.A. Compounds division	Italy	25		●		
GAPI S.p.A. PTFE division	Italy	56			○	
GAPI S.p.A. PTFE division - Fluoril	Italy	65			○	
ARTIC SEALS s.r.l.	Italy	56				○
PRADELLA & MATEGO S.p.A.	Italy	96		●		
ROLF S.p.A.	Italy	83		●		
GAPI USA inc.	U.S.A. (Ohio)	11	●			
GAPI Technische Produkte GmbH	Germany	89	●			○
GAPI Ltd	U.K.	11	●			
GAPI Sealing System	Spain	9	●			
<b>Total</b>		<b>690</b>				

# Group Companies in the world



**U.K.**  
GAPI Ltd

**GERMANY**  
GAPI GmbH

## ITALY

- GAPI S.p.A. – Headquarters
- GAPI S.p.A. – Logistic Center
- GAPI S.p.A. – Compounds div.
- GAPI S.p.A. – Rubber div.
- GAPI S.p.A. – PTFE div.
- Rolf S.p.A. – Oil Seals div.
- Pradella & Matego S.p.A.
- MIROS s.r.l.
- ARTIC SEALS s.r.l.

**U.S.A.**  
GAPI USA Inc.

**SPAIN**  
GAPI Sealing System



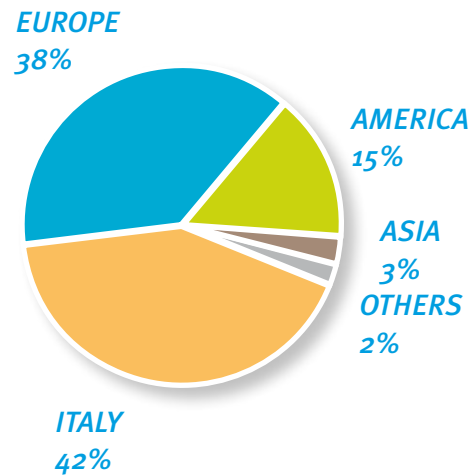
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# GAPI GROUP Sales

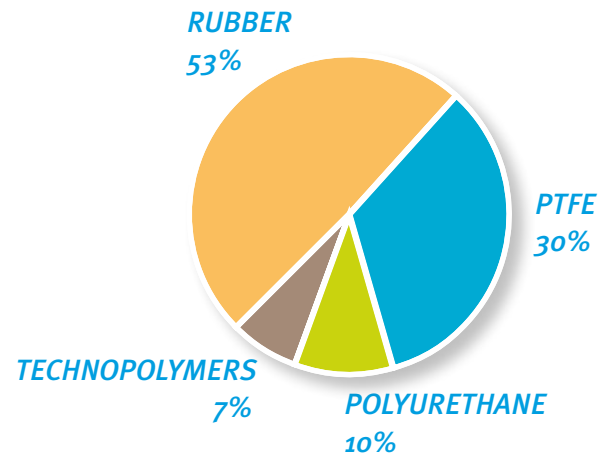
## Consolidate Turnover 2018

**108** Millions Euro

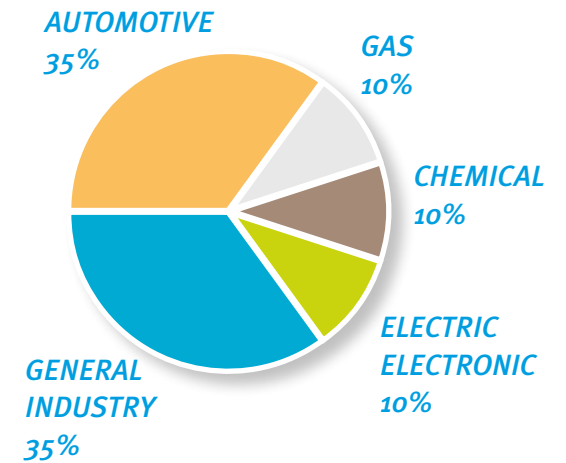
*by geographic area*



*by materials*



*by sectors*





# Compounds Division



*GAPI S.p.A. - Compounds div. - Italy*

*All rubber compounds for GAPI GROUP are developed and manufactured in our dedicated unit for compounding. Three complete production lines are operating:*

- ▶ *line for standard black compounds, designed and equipped for major production runs,*
- ▶ *line dedicated to fluoroelastomers (FKM),*
- ▶ *line for smaller runs.*

*Special and standard Compounds:  
NBR, EPDM, HNBR, FKM, ACM, CR,  
SBR, NR.*

*GAPI S.p.A. - Compounds Div. - Italy*



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# Rubber Division: O-Rings



*GAPI S.p.A.  
Rubber div. - Italy*

*GAPI can manufacture every type of O-Rings:*

- ▶ *standards: are available in 3.500 sizes in NBR, HNBR, FKM, FFKM, MVQ and EPDM compounds. GAPI produces O-Rings up to 1450 mm outside diameter. They all comply with the most current Technical Specifications,*
- ▶ *specials: materials responding to specific requirements or requiring tighter tolerances.*

*Our automatic control machines can guarantee « zero defect » level upon request.*



# Rubber Division: Specialised Compounds - FFKM



GAPI S.p.A.  
Rubber div. - Italy

- ▶ *The more aggressive and unforgiving the industrial environment, the more critical it becomes to optimise seal design and material selection. **Efficiency** and **Reliability** objectives can now be achieved with **Gapi's** new range of perfluoroelastomers.*
- ▶ *Offering **exceptional chemical** and **thermal resistance**, they combine **sealing force**, **resistance** and **recovery** characteristics of an elastomer with chemical resistance comparable to **PTFE***
- ▶ *The combination of **advanced polymer technology** and **process innovation** enables you to make **Gapi** the **natural choice** for the source of your **FFKM requirements***



**OIL, GAS AND PETROCHEMICAL**



**AEROSPACE AND DEFENCE**



**CHEMICAL PROCESSING**



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# Rubber Division: Technical Components



**PRADELLA & MATEGO S.p.A.**  
Italia

*Our manufacturing units can answer to the market requests, in terms of material characteristics, shape or surface finishing and defects level (zero defect).*

- ▶ *moulded parts (with or without metal inserts) on Customer drawing,*
- ▶ *diaphragms (with or without woven inserts),*

*are produced in medium and large scale by injection moulding, transfer moulding, compression, etc.*

*Pradella & Matego mission is bring to the market high-performance gasket in codesign with Customer needs, both for the Braking System market and Automotive sector.*



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# Rubber Division: Oil Seals

**ROLF**

*ROLF S.p.A. - Oil Seals Div. - Italy*

*We can manufacture a huge range of rotary shaft seals:*

- ▶ *standards: more than 1.000 dimensions are available in stock in NBR, and FKM, according to DIN 3760 standard,*
  
- ▶ *Rolf is specialized to develop special Oilseals for specific markets:*
  - *Agricultural - Axles for construction equipment and tractors*
  - *Power Steering and shock absorbers*
  - *White Industry*
  - *Motorcycles*
  - *Gear boxes and power trasmission*

*Rolf products are developed according to innovative design, from common Oilseals for general use to complex solutions such as Combi and Kasette with heavy-duty features of “long life”.*



## PTFE Division: Basic Shapes & Thin Walled Tubing



*GAPI S.p.A. - PTFE division*

*Our plants and equipments can produce semi-finished products with different technologies.*

*We manufacture basic shapes in virgin PTFE as well as PTFE filled with glass fibre, carbon, bronze or other fillers on demand.*

*Thin walled tubes are produced by paste extrusion in different dimensions and colours. They are mostly used for dielectric insulations, anticorrosion protection and for fluid transfer.*



*GAPI S.p.A. - PTFE Div. - Italy*



**GAPI GROUP has the licence for the PTFE TFM™ Dyneon™ mark.  
On request we can deliver semifinished products certificated TFM™ Dyneon™.**



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## *PTFE Division: Machined Parts*



*GAPI S.p.A. - PTFE division*

*We have an important manufacturing program of PTFE finished parts machined by CNC machine and automatic turning machines in Virgin or Filled PTFE.*

*We are able to produce :*

- Valve seat rings*
- O-Rings*
- Piston rings*
- Customized parts*
- Snap rings*
- Hydraulic & Pneumatic Seals*
- Back-up rings*

*Gapi has probably the largest production capability in Europe of PTFE machined parts with 6 Millions pieces produced per week with 100 RAM extruders and 160 turning machines.*



*GAPI GROUP has the licence for the PTFE TFM™ Dyneon™ mark.*

*On request we can deliver finished products certificated TFM™ Dyneon™.*



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# Technopolymers Division: TORLON®



*GAPI GmbH  
Tecopolymers - Germany*

*Our equipments and toolings are dedicated to manufacture any kind of finished parts, per Customer's drawings, in different polymeric materials.*

*GAPI GROUP activity covers a large number of automotive industry requirements:*

- ▶ *gaskets for automatic transmissions,*
- ▶ *components for cinematic distribution chain,*
- ▶ *CVT parts,*
- ▶ *power steering components,*
- ▶ *agricultural application.*

*TORLON® is a SOLVAY trademark*



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# *Polyurethane Division: Technical Parts*



*MACMA Poliuretano - Italia*

*We produce every type of **CAST** seals in Polyurethane:*

- ▶ *standards: we have a complete manufacturing program for the hydraulic and pneumatic industry,*
- ▶ *specials: our different manufacturing units can answer to every market request, such as material quality, specific shape requirements, surface finish and defect level (zero defect).*

*Technical options are evaluated following market requirements and technical specifications.*



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# Hydraulic Division: Oleodinamic & Pneumatic Sealing Systems



**ARTIC SEALS**™

ARTIC SEALS s.r.l. - Italia

*We manufacture a complete range of polyurethane and thermoplastic sealing systems either for hydraulic and pneumatic applications, starting from the project of the profile and tooling equipment to the production of the seal.*

*Our Technical Staff is skilled to design tailor-made seals and project works, developing together with the client the most suitable and innovative solutions.*

*To complete the range, Gapi has a manufacturing program in NBR and FKM for symmetrical and non-symmetrical, single lip or double lips seals, with or without metal support.*

*Different types are manufactured on demand.*

*They can be used for static applications and alternating or rotary motions.*



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## Research & Development

*Our laboratories are dedicated to research and to control materials and are equipped with the most modern instruments and test equipments for Elastomers, Polyurethane and PTFE.*

*The most recent investments have been addressed to control instruments such as:*

- ▶ *low temp. Testing for TR10, Brittle point and Tg,*
- ▶ *ozone resistance,*
- ▶ *dielectric resistance,*
- ▶ *thermo gravimetric testing,*
- ▶ *processability Testing.*
- ▶ *DSC or Differential Scanning Calorimeter,*
- ▶ *Granulometry Laser,*
- ▶ *FTIR Infrared Test.*

*We are therefore able to carry out all standard test required by the most common standards and specifications.*

*The laboratory is also equipped with a complete line for the development of new elastomeric compounds.*



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# Labs & Controls



▶ *Automated final control  
Zero Defects*

▶ *Dynamometer control*

▶ *Computerized dimensions  
control (OGP™)*

▶ *Durometer control*

▶ *Reometric control*

*All moulds, compounds and Finished Items are strictly controlled before and throughout the production process to ensure the conformity to all specifications.*



*GAPI GROUP - Laboratories and Technical Dept.*



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# Main Products



*PTFE TPS*



*Vulkollan®*



*Rubber O-Rings*



*Bonded Seals*



*Guide Rings*



*Rubber Parts*



*Torlon®*



*Oil Seals*



*Rubber Cords*



*Hydraulic & Pneumatic*



*PTFE Parts*



*PTFE Stock Shapes*



*PTFE Back-up*



*FEP O-Rings*



*PTFE O-Rings*



*Rubber U-Rings*



*Polyurethane*

TORLON ® is a SOLVAY trademark

VULKOLLAN ® is a BAYER trademark

# Main Customers



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