# Company Presentation (Updated: May 2020)



# SOGO SpA

Technical MOULDED RUBBER and EXPANDED RUBBER



LAB TEST

— SINCE 1967

Design & Manufacturing



### **SOGO Group & Mission**

**SOGO SpA Group** is a consolidated industrial reality, focused on the design, production and distribution of **technical RUBBER and EXPANDED rubber components** mainly for the **automotive**, **industrial** and **railway** applications; Other than for the production of rubber compounds and **Lab Tests** on finished products









### **MISSION**

PRODUCTION of <u>technical rubber</u>, <u>expanded rubber and co-moulded components</u>; being able to support Customer's engineering dpt. in order to co-design and **TEST** new elastomeric solutions designed to achieve the Customer specifications at the **best price in the market** 



### **SOGO Where We are - Locations**





### **ITALIA - Frosinone**



**SOGO SpA** – with its HeadQuarter and its main Production Facility in Italy (Frosinone) and a warehouse in Milano area - is expanding its presence Worldwide in order to further and better support the Customers' needs:

- Italy;
- France;
- **Germany**;
- **Bulgaria**;
- **Marocco**

All the Production Plants have achieved all the Certifications **required** in order to supply Automotive, Railway and Industry applications





### **SOGO Certificates**













**ISO 9001** 

IATF

ISO 14001

**100% GREEN** 

**ALWAYS ASK FOR THE UPDATED ONES!** 



### **SOGO Group - Highlights**

# — SINCE 1967 —





Founded in 1967 in Frosinone Italy,
SOGO SpA Italian production plant
covers more than 25.000
square/meters with a production
capacity over 9.000 tons/year and more
than 1.500 compounds formulations.

www.sogo.it











1967

1998

2006

2017



# SOGO Italy - Frosinone - Renovation Plant (finished in September 2019)

















In 2016 «SOGO-LAB» was born, thanks to important investments in labinstruments, technologies and highly specialized personnel; with the aim of supporting customers in the design, co-design and in the testing phases

CONCEPT DESIGN CO-DESIGN

ENGINEERING

LAB SIMULATIONS PROTOTYPING

TESTING

### **SOGO-Lab – Lab Tools**







### **NEW LAB TOOLS**

Dynamometer, ShoreA Durometer, Rheometer, Thickness Gauges, Calipers, Micrometers, Profile Projector, Compression Set, Impact Tester, Flammability Tester, Ozone Tester, Ovens, Theraometer, Mooney, Laboratory Samples Press, IRHD, Densimeter, Abrader, 3D Measuring System, Climatic Chamber, MTS with climatic chamber, CAD/CATIA/PROEng



## **SOGO-Lab – NEW Italian Lab**







### **SOGO-Lab – NEW Italian Lab**















### What do we do?

### **CO-DESIGN**



**COMPOUND** 



RAPID AND STANDARD PROTOTYPE



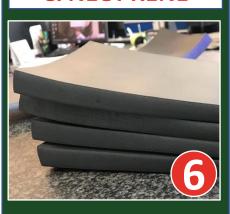
MOULDED RUBBER



**CO-MOULDING** 



**EXPANDED EPDM**& NEOPRENE



**ASSEMBLYING** 

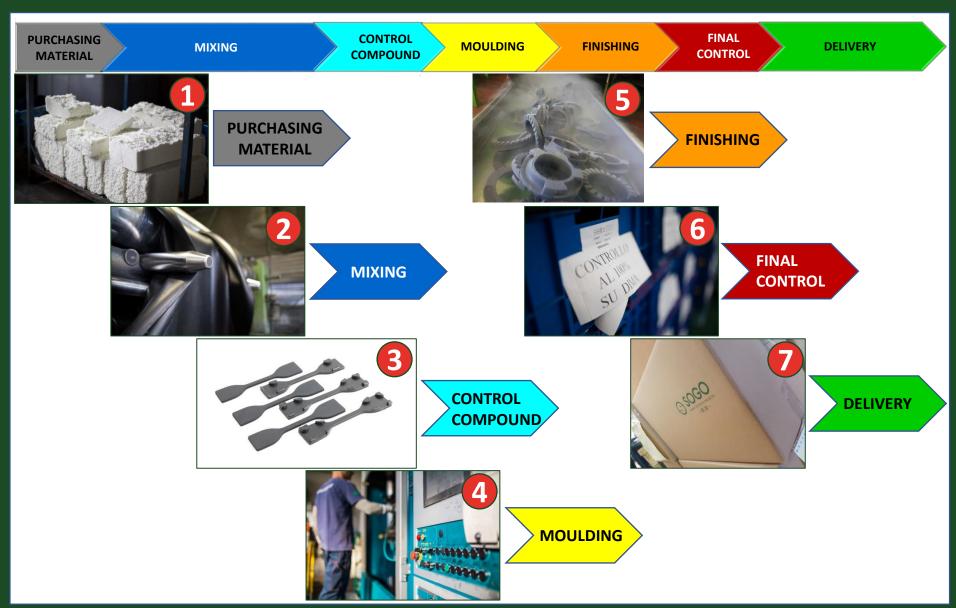


**LAB TESTS** 





## How do we do? Flow process diagram





### Main Automotive & Railway – Direct OEM Customers









# SOGOLAB

FREE TO SHAPE

— SINCE 1967 —

### **RHEOLOGICAL TESTS**

- Mooney viscosity
- Rheology testing (MDR)

### **MATERIALS CHARACTERIZATION**

- FT-IR Spectrometer
- Thermogravimetric analysis (TGA)
- Differential Scanning Calorimetry







### PHYSICAL-MECHANICAL TESTS

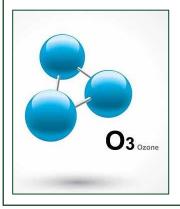
- Determination of ShA Hardness
- Determination of IRHD and mIRHD Hardness
- Determination of Electrical Resistance
- Traction and compression dynamometric test
- Determination Compression Static Hysteresis
- Tear test
- Compression Set Under Load
- Compression Set under Deformation
- Determination of Density
- Determination of humidity





### **ACCELERATED AGING TESTS**

- Determination of Ozone Resistance
- Aging tests in air oven up to 200°
- Aging tests in fluids up to 200°
- Water absorption tests



### **CHECKS ON ELASTIC CHARACTERISTICS**

- Determination of Static Stiffness on Finished Component
- Determination of Dynamic Stiffness on Finished Component (0÷200 Hz)
- Determination of Fatigue Strength on Finished Component at:
  - T.A.
  - +250°c in Climatic Room
  - -40°c in Climatic Room







### **DIMENSIONAL CHECKS**

- Dimensional checks with Smart Scope Optical Meter
- Dimensional checks with Optical Meter
   3D Core Essential GOM

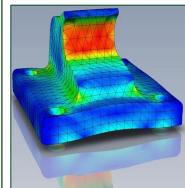
# SMART SCOPE





### **FURTHER SERVICES**

- Finite Element Analysis FEM
- Prediction Life
- Flow Analysis (Mold Flow Simulations)
- New Compounds research and Industrialization
- Specimen molding
- Processing of samples on Finished
   Component with Splitting Machine























RUBBER

EXPANDED RUBBER











RUBBER

EXPANDED RUBBER



VIBRATION DAMPINGS FOR SUSPENSION SYSTEM



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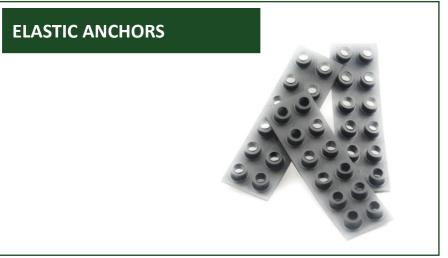
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### **RUBBER BUSH**



CO-MOULDED







**EXPANDED** 

**HEAT PROTECTION** 











**RUBBER** 

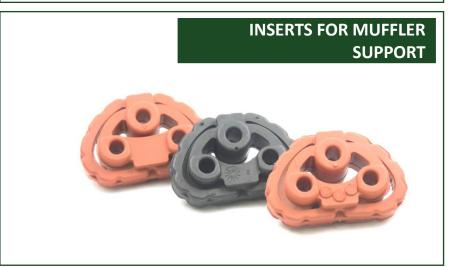
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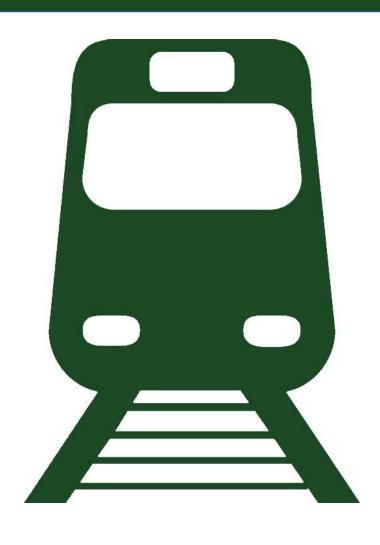


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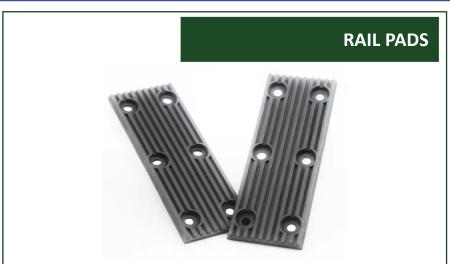


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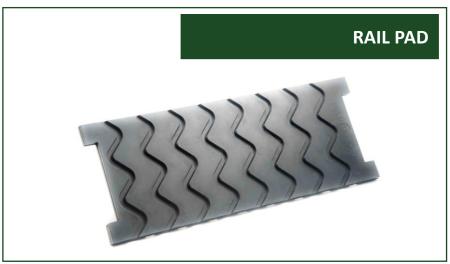
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**RUBBER** 

EXPANDED RUBBER







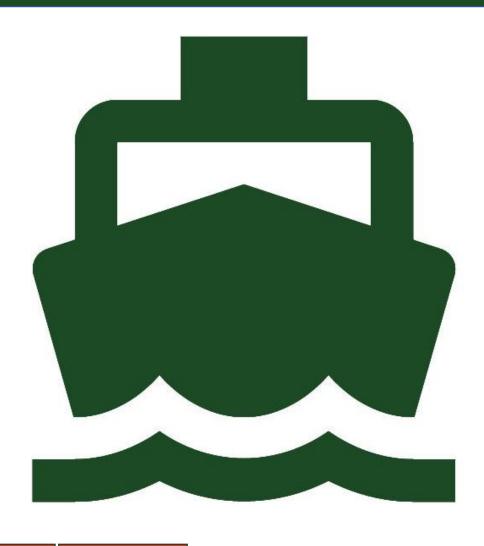


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#### **THANK YOU!**



