

### HISTORY

#### 1979

SEA Company was settled as production of O-rings.

#### 1991

Enlargement of the facility from 1000 sqm to 2500 sqm

#### 2003

QM System was certified according to ISO 9000

#### 2008

Acquisition of the company by Fam. Marcandelli, SEA RUBBER establishment







#### HISTORY

#### 2010

Defined a new organization chart of the company.

Launch additional production of technical rubber gaskets

#### 2011

Planning and building of a new production facility 5000 square meters. QM System was certified ISO TS16949

#### 2013

Inauguration of the new facility.
Enviromental management
System was certified according to
ISO 14001







### HISTORY

#### 2018

QM System was certified IATF 16949:2016 ISO 9001:2015 ISO 14001:2015 ISO 45001:2018

#### 2019

New building design and start the new construction site further 4.000 square mt to enlarge the actual site

#### 2020

New building completed and start transfer departments.







### OUR PLANT



## OUR PLANT





### APPLICATION FIELDS

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Automotive



**Filters** 



Hydraulic & Pneumatic



Valves / Pumps





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Water distribution



Gas control



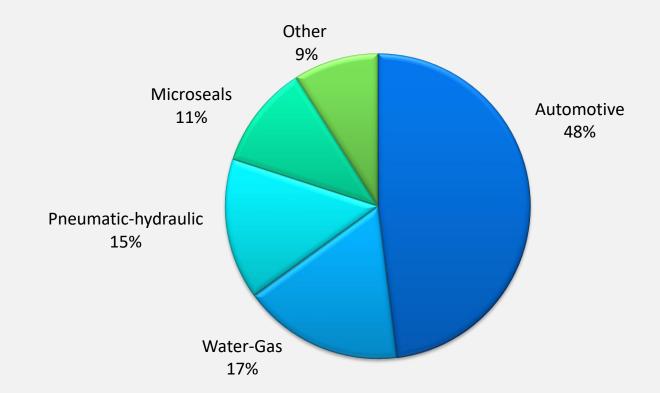
Medical application



Electromechanical



## APPLICATION FIELDS





O-Rings

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## PRODUCTS

Micro Seals

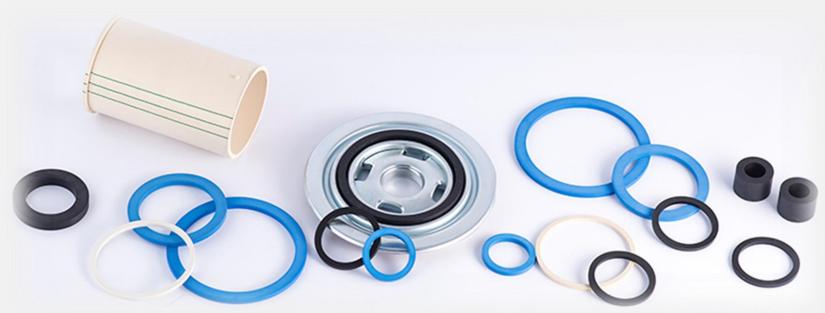


Technical Items





Washers





Lip Seals



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## PRODUCTS

### Frames





#### COMPOUNDS

#### 1.220 active compound codes coming from selected suppliers and belonging to:

- NBR Nitrile
- HNBR Hydrogenated Nitrile
- **CR** Chloroprene
- ACM Polyacrylic
- **EPDM** Ethylene-propylene-diene (Sulphur or Peroxide)

- **AEM** Ethylene-acrylate
- VMQ Silicone
- **FKM** Fluorocarbon
- **FVMQ** Fluorsilicone





#### SPECIAL APPROVALS

#### Institute











#### Laboratory













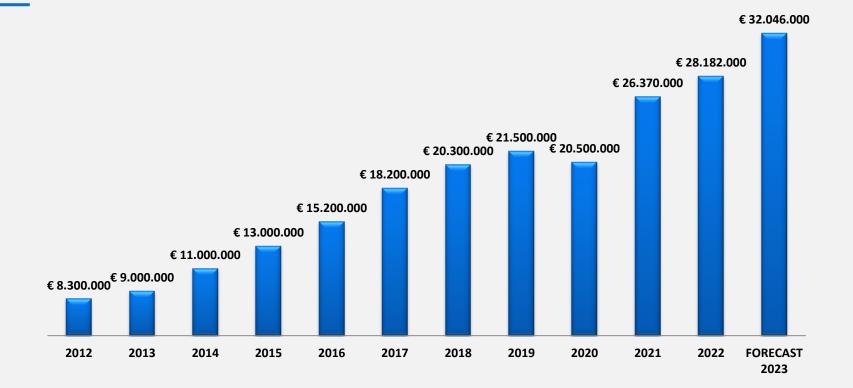




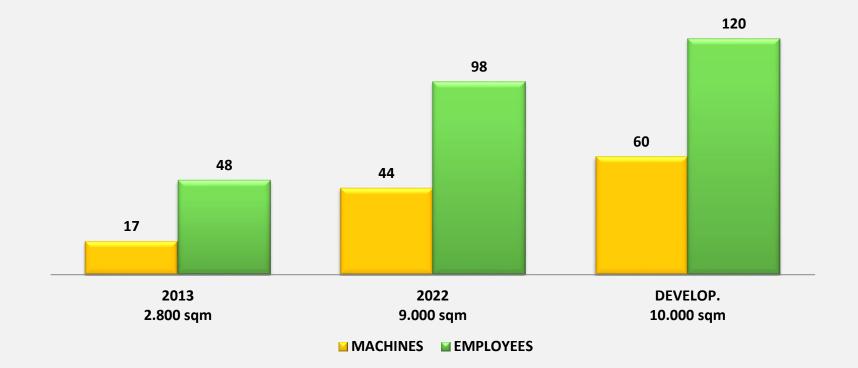
## QUALITY CERTIFICATION



### TURNOVER



## ABOUT US

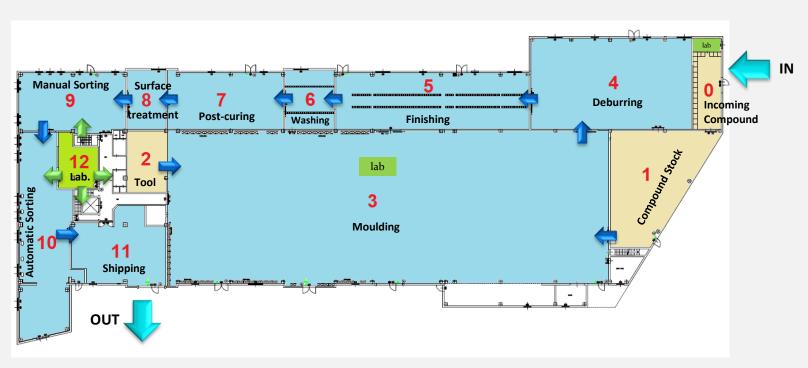






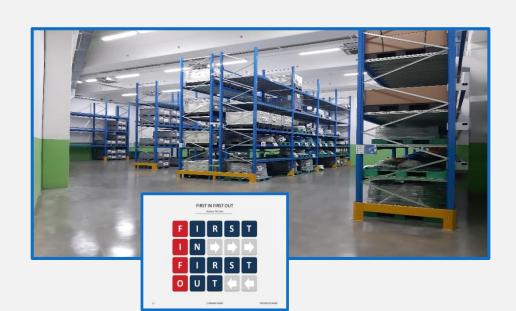
### PRODUCTION PROCESS

#### Circular flow all around the quality



### COMPOUNDS STOCK

Temperature and humidity control (Daikin) F.I.F.O. System – First In First Out Dedicated incoming inspection area





## TOOL CLEANING

Sandblaster machine and Automatic moulds washing machine Average number of washed tools: 30 per shift









#### MOULDING

New centralized vacuum and specific compressor room

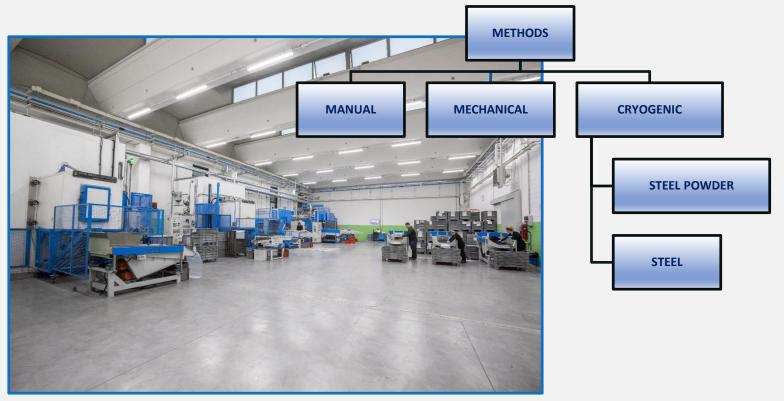
New technical study to improve the uniform heat distribution on tool plates

Potential plant capacity: 60 presses (from 190 up to 450 tons clamping force)





## DEBURRING



### DEBURRING

#### New vacuum system for low nitrogen dispersion







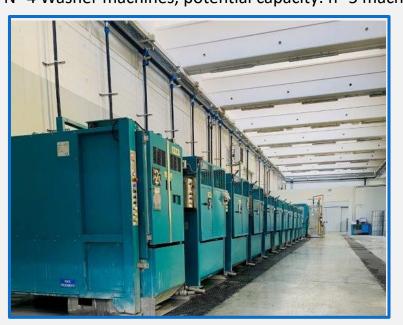
CRYOGENIC Iron Ball

CRYOGENIC Steel Powder MECHANICAL Punching System



### FINISHING AND WASHING

N° 19 Drums, potential capacity: n° 25 Drums N° 4 Washer machines, potential capacity: n° 5 machines





### POST CURING



N° 10 Ovens with air purification equipment, potential capacity n° 12 ovens





## PTFE SURFACE DEPARTMENT





### SURFACE TREATMENT CONTROL

O-RINGS

Pieces under of UV lamp

Table with UV lamp





Without PTFE

With PTFE



## SURFACE TREATMENT CONTROL-FRICTION TEST





### FINALINSPECTION

The manual sorting workstations are equipped with Waldmann Lighting Lens 2X. N° 19 automatic sorting machines, potential capacity n° 32 machines







### QUALITY LABORATORY

Rheometer test on all incoming compound batches.

Equipment for testing Elongation at break, Tensile strenght, Roughness, Labsfree test and Compression-set test on the finished parts.

UTP Kalix 155 and 500 machines to check dimensions.



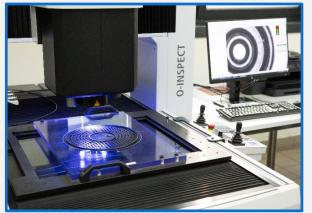




### QUALITY LABORATORY

Zeiss O-Inspect 543 machine to check all dimensions and defect.
Ultra-high resolution microscope Keyence VHX 7000 (magnification from 20 to 500)
Thickness Optical Laser Measurement device.

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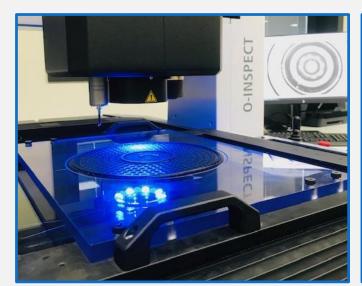
### QUALITY

ZEISS O-Inspect 543 machine for the dimensions and defect analysis.

Sorting machine with elongation specific for big orings.

Sorting machine with squeezer for small orings.

Sorting machine with directly packaging.



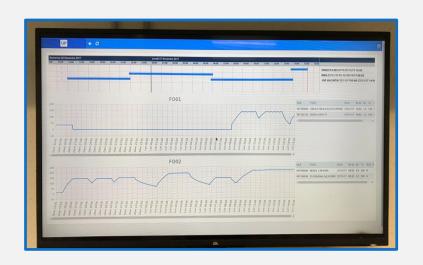






### TRACEABILITY

All the machines and departments are directly linked to the EDP system.





### SHIPPING

Barcode labels
PE BAG + Cardboard box or KLT Packaging
Truck optimized loading area





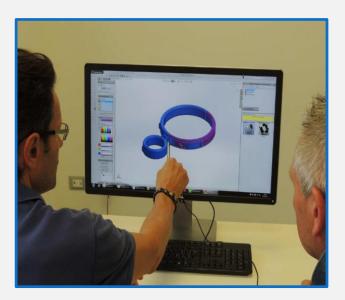


### RESEARCH AND DEVELOPMENT

Sampling projects and design of technical parts.

Assistance for the development of new materials and design work.

Passion and know-how of our human resources.









### PRODUCTION DEVICES

Coalescence air purification system for moulding department. The first special "zero emission" project in Italy. New nitrogen gas device (45.000 Lt)









### PRODUCTION DEVICES

New air purification systems specific for:

- deflashing powder.
- post-curing department (coalescence + activated carbon).







## PRODUCTION DEVICES

New closed loop water treatment plant, with recovery of waste in rubber bricks.







## THANK YOU FOR YOUR ATTENTION

