Trachite ARTIGIANA

Stones of the past lived in the present

THE COMPANY

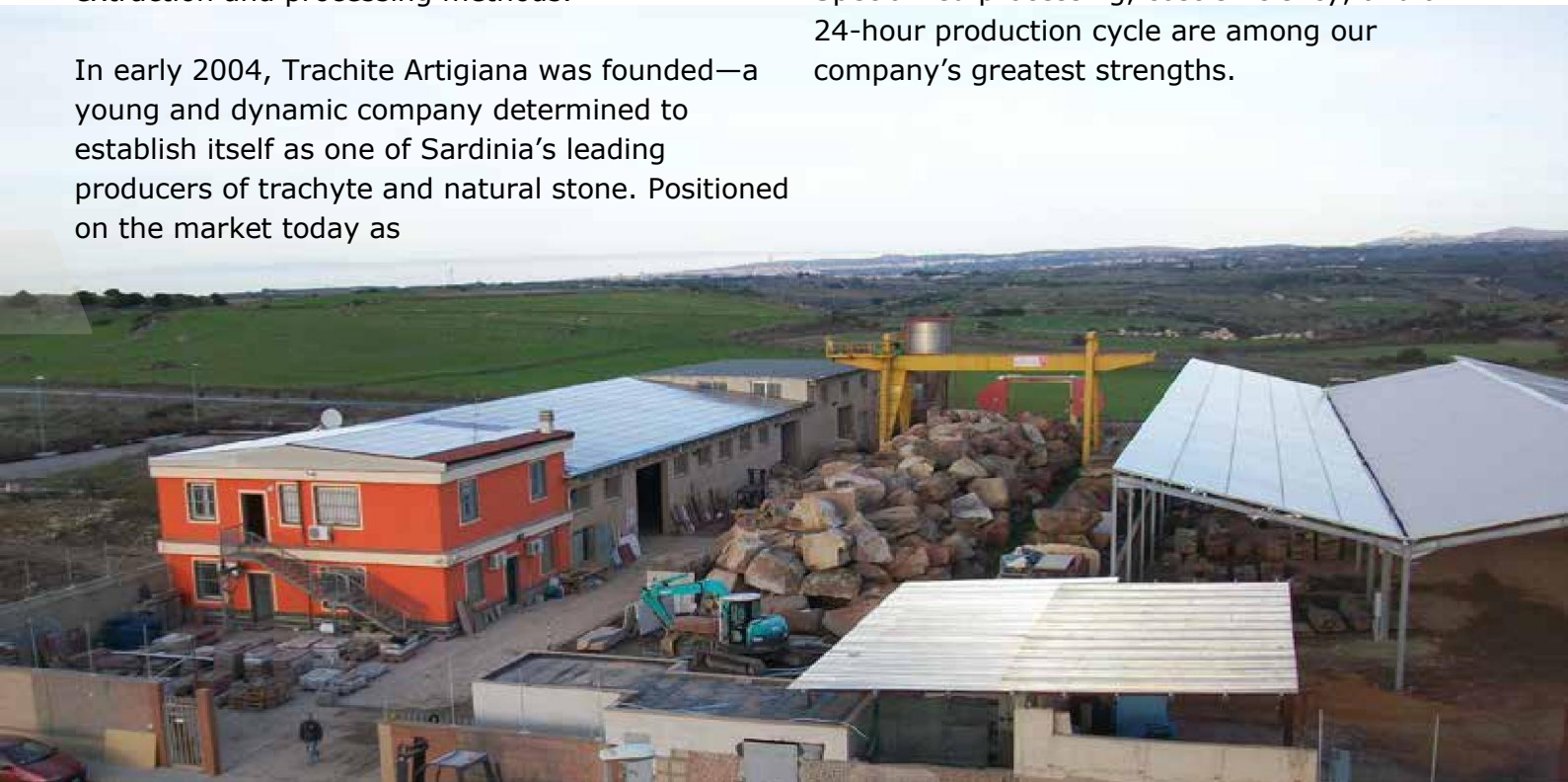
The tradition and passion for stone craftsmanship in Ittiri have deep roots. By the late 19th century, more than 500 stonemasons were extracting and shaping
the trachyte blocks present in our territory, decorating and embellishing not only our country and our homes, but also the surrounding towns and cities.

Our family has preserved the expertise passed down by our father, Gavino Soro, and blended it with modern technologies and innovative extraction and processing methods.

In early 2004, Trachite Artigiana was founded—a young and dynamic company determined to establish itself as one of Sardinia's leading producers of trachyte and natural stone. Positioned on the market today as attentive interlocutor and eager to offer a quality product at certainly competitive prices, combined with a serious sales policy and professional preparation of the company team.

The extraction and processing of different types of trachyte, basalts and other natural stones allows us to have large quantities and a wide range of colors, making our stones a valid alternative to granite and marble.

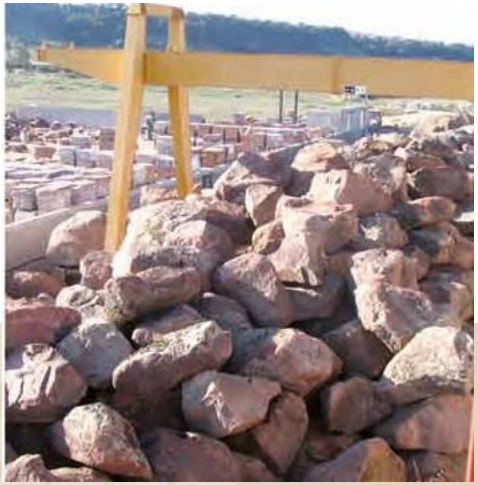
Specialized processing, cost efficiency, and a 24-hour production cycle are among our company's greatest strengths.



COMPLETELY IN-HOUSE PROCESSING CHAIN

OUR GOALS:

- Reduce the costs of extraction and processing of trachytes and natural stones
- To make the product conquer a competitive place on the local, regional, national and international market.
- Represent a valid alternative to other similar materials used so far in construction.



BLOCK STORAGE

BRICK STORAGE

THE EQUIPMENT

Trachite Artigiana is proposed on the market as one of the main trachyte sawmills in the area thanks to the use of machinery and innovative and cutting-edge equipment in the sector, which allows us to respond promptly and precisely to every order.

Bridge milling machines, jib milling machines, a block cutter that can be fitted with 52 diamond discs if necessary, allow a high production of strips of various sizes (max width 45 cm) which are subsequently defined and transformed by the other machinery present, for the creation of the finished product.

Our computerized shaping cutter, integrated with a lathe, enables the production of complex shapes, profiles, frames, columns, and other customized works.

The other semi-finished materials are then produced with various types of milling machines, trimming machines, trimming machines, etc., and Depending on the type of processing, it will then be finished in the appropriate specialized departments.

The material produced always has a smooth surface (saw cut) which on request can be polished, thanks to the use of the polishing machine, or bush-hammered with the automatic bush-hammering machine which allows you to obtain a fine or coarse bush-hammering of the material with a maximum width of 60 cm.

We also have several splitting machines that allow us to make tozzetti, cantonetti, natural material for fair-façade, opus incertum, and other products widely used for the recovery of historic centers, street furniture, façade and flooring cladding.

OUR QUARRIES

Trachyte Artigiana is in possession of several authorized sites for the extraction of trachyte, located in the territory of Ittiri.

The quarries are formed by blocks of various sizes with large fractures between one block and another and not by a single bank as in the case of granite.

The unique qualities of our stones, their ease of processing, and their deep connection with the land explain their extensive use in the past for building town centers and prestigious landmarks.
While stone remains essential for restoration and paving, contemporary design is now reimagining its role in modern contexts.

The quarries are the starting point of the production process. Here the material is extracted with the help of the excavator and is selected
and separated according to the different qualities and characteristics, and then sent to the laboratory for subsequent processing.

In all three sites, the extraction of the material is carried out according to the indicated in the projects approved by the Regional Department of Industry, together with which
An environmental restoration and recovery plan has been presented.

THE ADVANTAGES

The physical and mechanical properties of our trachytes, along with their versatility, make them an excellent alternative to industrial materials. Our material has a siliceous origin and therefore contains about 40% quartz, which
it makes it hard and compact, therefore easily workable and remarkably resistant to wear and environmental phenomena.

Other advantages are determined by the possibility of being able to guarantee considerable quantities of homogeneous material from the quarries
and the chromatic variety that represent the strength of our company boasting a wide range of products available.

We have different types of trachytes that are different in terms of both colour variety and technical properties.
The colors, ranging from red to purple to gray, allow us to meet the different needs of customers and the realization of works intended for individuals or companies, depending on the specific destination.

- **MAXIMUM TECHNOLOGICAL INNOVATION**
- **PRODUCTION QUANTITY CONSTANT AND CONTROLLED**
- **EXCELLENT VALUE FOR MONEY**

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PRIVATE WORKS

Red trachyte and white marble cladding

White marble and red trachyte wall tiles

Natural split red trachyte

Red trachyte frames and bricks

White marble and red trachyte staircase

Purple trachyte coating

External staircase in red trachyte

White marble kitchen countertop

Natural split fireplace cladding in multicolor trachyte

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Red trachyte cladding and cornices, white marble steps and capitals

Red trachyte frames

Natural split red trachyte

Purple trachyte internal staircase

Multicolor natural split trachyte

Internal ladder in red trachyte

White marble cladding

Red trachyte coating

PUBLIC WORKS

Grey, purple and red trachyte floor (Erula)

Red trachyte basalt and marble floor (Alghero)

Red trachyte and marble flooring (Castelsardo)

Light trachyte coating (Sassari)

Red and grey trachyte floor (Sassari)

Red and grey trachyte floor (Sassari)

Natural split lining, red trachyte (Ittiri)

Purple trachyte flooring (Alghero)

Purple trachyte flooring (Arzignano)

Purple trachyte flooring (Arzignano)

Flooring and benches in grey trachyte (Alghero)

Purple trachyte cladding (Cagliari)

Grey trachyte flooring (Sassari)

Purple trachyte flooring (Arzignano)

Red and grey trachyte floor (Sassari)

Grey trachyte floor (Erula)

Grey trachyte and white marble floor (Sassari)

Grey trachyte floor (Erula)

FUNERARY ART in pink trachyte and white marble

Technical Tests and Radioactivity

TECHNICAL TESTS

SUMMARY OF THE TECHNICAL PROPERTIES OF OUR TRACHYTE ACCORDING TO THE EU TEST TYPE STANDARDS AND RELATED REFERENCE STANDARD

Petrographic classification UNI EN 12407: 2007	RHYODACITIC IGNIMBRITIC TRACHYTE
Apparent volumetric mass UNI EN 1936: 2007	2259,0
Real volumetric mass UNI EN 1936: 2007	2634,67
Open porosity UNI EN 1936: 2007	3,38
Total porosity UNI EN 1936: 2007	14,18
Water absorption and atmospheric pressure UNI EN 13755: 2008	3,84
Compressive strength UNI EN 1926:2007 (*)	92,00
Flexural strength under concentrated load (after 48 freeze and thaw cycles) UNI EN 12372: 2007+ UNI EN 12371:2003 (*)	93,00
Determination of NORMAL frost resistance (after 60 freeze-thaw cycles) UNI EN 12371/2010	105,17
Determination of frost resistance PARALLEL TO FLOORS (after 60 freeze-thaw cycles) UNI EN 12371/2010	73,63
Resistance to aging caused by the action of SO2 in the presence of humidity UNI EN 13919:2004	n.a.
Resistance to thermal shock UNI EN 14066:2013	ΔM=-0.01/ΔED=-0.9
Abrasion resistance UNI EN 14157:2017	6,5
Coefficient of linear thermal expansion UNI EN 14581:2005	7,18
Energia d'urto UNI EN 14158:2005	n.a.
Microdurezza KNOOP UNI EN 14205:2004	HK25=1730 / HK50=2538 / HK75=3862
Tensile strength at fixing points UNI EN 13364:2003	d1=12.8 | ba=39 | F=2.20
Slip resistance (USRV index) UNI EN 14231:2004	76,80 | 77

RADIOACTIVITY

Radioactivity in natural stones is mainly due to the presence of isotopes such as Uranium (U238), Thorium (Th232), and Potassium (K40), as well as their concentration levels. The Radioisotopes present in building materials, in fact, in addition to emitting gamma radiation harmful to human health, can give rise to the emission of Radon, a radioactive gas deriving from the decay of uranium (U23B).

Since natural radiation accounts for about 73% of the exposure affecting the population, and given growing customer awareness regarding health and building materials, we carried out an in-depth analysis of our stone.

Unlike many other stones commonly used in construction, our trachyte performed excellently in tests: all samples showed negligible concentrations of radioactive elements, well below the limits set by the European Commission.
It can therefore be stated with confidence that our trachyte poses no risk to human health.

Eco-friendly COMPANY

OUR COMPANY HAS BEEN FOLLOWING A POLICY THAT IS VERY ATTENTIVE TO ENVIRONMENTAL PROBLEMS

We have installed a processing sludge purification plant, where the water, which returns to circulation in the process, is divided through a high-pressure micro-filtering process from the sludge, which takes the form of compact blocks that are reused for road substrates as aggregating inert materials. We have also made ourselves autonomous from an energy point of view by installing a 350 KW photovoltaic system, allowing us to save on the bill, and avoiding the emission of 500,000 tons of CO_2 into the atmosphere per year.

We generate no processing waste: all residues are crushed and screened to produce gravel of various sizes

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