Eredi Scabini, was one of the first companies to introduce unshaped (monolithic) refractories as an alternative to conventional bricks. Today, the company specialises in the design and production of monolithics, preformed shapes and composites based on its own exclusive formulations. More than 30 percent of the material produced is transformed into preformed products for the lining of furnaces and containers for molten metal - in a broad range of shapes up to 15 tonnes each. Preformed shapes offer a number of advantages, and the growing demand for high-quality, ever larger shapes confirms that Eredi Scabini’s approach is the right one. The aim is to replace bricks with larger-sized pieces to reduce the number of joints and construction time, thus increasing furnace life and productivity on the one hand and reducing the resultant costs on the other.

The company is market leader in this segment and points to a customer reference list that includes well-known companies such as ALCOA, ALERIS, AURUBIS, COMPONETA, CONSTELLUM, DUBL, FONDERIE TACONI, FORGIATURA VIENNA, HAYES LEMMERZ, KME, MAHLE, NOVELIS, TENARIS, THYSSENKRUPP, TRIMET, WIELAND-WERKE, ZANARDI FONDERIE.

Thanks to its technology, product range and know-how coupled with a reputation for listening and responding to customers’ needs, Eredi Scabini can offer products and solutions tailored to any plant. This includes a complete “turnkey” service, from the careful analysis of the specific requirements through to the design, production and installation of the refractories, which is backed up by a comprehensive after-sales service. Eredi Scabini’s refractory solutions are developed entirely in-house. The design is executed with the aid of sophisticated 2D and 3D CAD and FEA systems. All the monolithics, including those used for the production of preformed shapes, are produced in the company’s own plants and are based on exclusive formulations. The company owns the intellectual property rights to methods of production, and is constantly developing new formulations to fully meet every type of requirement, installation and commissioning carried out by specialists at the company’s own facilities.

Eredi Scabini offers innovative, high-performance solutions for many applications in a range of industries. The solutions are tailored for the modular refractory lining of furnaces or specific points. They are created and optimised in the company’s plants and then transported to customers’ sites and assembled. A wide range of processes, both monolithics and preformed shapes, is used and easier to assemble a bit, the greater the benefit for the customer. To have a broader picture of Eredi Scabini’s cutting-edge solutions, you can read some of our most significant case histories in the following pages.

90% OF OUR BUSINESS IS IN MOLTEN METAL APPLICATIONS.

Eredi Scabini R&D Lab: an inexhaustible workshop for new ideas.

Our company has always implemented a policy strongly oriented towards quality and the continual development of its offering. In the Research and Development laboratory, the heart and soul of the company, engineers and researchers, with in-depth knowledge of ceramics, inorganic chemistry and materials science, work in close contact with the very best Italian universities and external research laboratories to identify new products for specific requirements. The sophisticated equipment, the development of new instrumentation techniques and access to a vast range of high-quality raw materials guarantee.

Eredi Scabini’s unrivalled flexibility in the development of more and more complex materials, constantly at the state of the art. The company has maintained a clear orientation towards new technologies, cutting the last few years Eredi Scabini’s research work has focused above all on the development of nanotechnology and the application of this basic principle in the refractory sector. This has been a proof of a vast scale in which the company has invested and is continuing to invest, in order to maintain a constant frontier at a high level of innovation and financial resources and which is already yielding amazing results. Today nanotechnology itself is no longer new, and a number of companies have already used and sold it in their products. We are not content with this, we are doing much more. We now nanotechnology as a driving force in the development of new products, concepts and business models that will be the heart of new chapters in the history of refractory materials.

WE VIEW NANOTECHNOLOGY AS SIMPLY AS MEANS TO THE DEVELOPMENT OF A NEW PRODUCT CONCEPT WITH FEATURES THAT WRITE NEW CHAPTERS IN THE HISTORY OF REFRACTORY MATERIALS.

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signless.com

Our mission:

“Everything that is worth doing at all, is worth doing well.” (P. Stanhope, 1694-1773)

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Eredi Scabini, news and events.

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highlights

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ADVANCED REFRACTORY SOLUTIONS
Eredi Scabini excels itself with Alfasipal™

The customer is an iron foundry producing about 57,000 tonnes of castings a year for the energy market. Besides castings 5000 tonnes and 4500 tonnes iron, the customer specified some austenitic castings (from 22 to 65 mm) and 416 F (20 to 410 mm), each with a thickness (20 to 65 mm) and 416 F (20 to 410 mm), each used in the transport and power generation sectors. Historically, the client had used only Lloyds Cast iron, with variable thickness at 100 mm for the castings used for the hot iron and 90 mm for those requiring fracture (Photo 1). The main problem was that the foundry was not able to achieve the requested quality, and the customer was forced to remove some of the foundry's equipment, disassembling the foundry which they subsequently used in a different company.

In 2012, Eredi Scabini delivered the first batch of Alfasipal™ to the customer. The customer's request was for a cast iron with a hardness of 350 to 450 Brinell, a finishing temperature of 700 to 900°C, and a maximum porosity of 4%.

The customer was initially skeptical about the new material, but after receiving the first batch, they were convinced of the material's quality and efficiency. The foundry, now fully equipped with Alfasipal™, produces up to 10,000 tonnes of castings per year. The customer has since expanded their production capabilities, now producing up to 15,000 tonnes of castings per year. The customers are now completely satisfied with the quality and efficiency of the Alfasipal™ castings, and they have recommended the material to other foundries in the industry.

Eredi Scabini Solution for Aluminum melting furnace lining.

The customer is a well-known manufacturer of aluminum products and was experiencing poor results from their existing furnace lining. They requested a material that could withstand the high temperatures and be easily installed and removed.

Eredi Scabini provided a solution in the form of their patented Alfasipal™ material, which is designed to withstand the harsh conditions of the aluminum melting process. The lining is easy to install and can be easily removed for maintenance.

The customer saw an immediate improvement in the performance of their furnace, with a significant reduction in the number of breakdowns and an increase in the output. They were so pleased with the results that they have since expanded their order to include additional units.

Job report:

- Photo 1: Furnace view in hot conditions before lining.
- Photo 2: Complete furnace with Alfasipal™ lining.
- Photo 3: Initial furnace lining with low performance.
- Photo 4: Alfasipal™ lining after installation.
- Photo 5: Furnace view in hot conditions after lining.

With Eredi Scabini's modular preformed and prefabricated solutions ABT you can forget about your furnace lining!

Eredi Scabini has always been in the forefront of furnaces and their capability for producing preformed shapes up to 16 tonnes in weight. These furnaces are known as “Advanced Block Technology” (ABT) systems. The ABT systems are prefabricated into slender, lightweight blocks that are easy to install and maintain.

These blocks are then assembled into the furnace lining, forming a complete and efficient lining system. The ABT system is designed to be durable, energy-efficient, and easily replaceable, making it a cost-effective solution for any furnace application.

The customer is a European manufacturer of refractory products, with a cutting-edge facility that operates 24 hours a day. They were looking for a lining system that would not only meet their performance requirements but also be easy to install and maintain. After extensive research, they decided on Eredi Scabini's ABT system due to its modular design and ease of installation.

Features:

- Weight savings: 40% on total costs
- 65% downtime reduction
- Excellent “non-wetting” properties and very low thermal losses

Eredi Scabini's modular preformed and prefabricated solutions ABT system is a game-changer in the refractory industry, offering a cost-effective and efficient solution for furnace lining. With Eredi Scabini, you can forget about your furnace lining and focus on what you do best.
Dry ramming mix lining after two weeks in service - Photo 2

CPS (Crucible Preformed System): an innovative solution for coreless induction furnaces lining with no rivals on the market.

The main features and benefits of the CPS:
- Quick and easy installation and maintenance. The furnace can be put back into production in a few hours.
- Higher productivity than conventional linings, along with less build-up, easier cleaning, and no maintenance need.
- Longer lifetime than conventional linings. Cleaner refractory is easy to maintain.
- Quicker turnarounds between main grade changes.

For further information contact us: sales_dept@erediscabini.com
The company that gives you a hand!

Eredi Scabini is a company with an integrated production process: R&D, ENGINEERING, PRODUCTION (monolithic, pre-formed shapes, composite) and TECHNICAL SERVICE are all integrated with the aid of a consolidated organisational model developed to control the quality of the entire production chain. A genuine team is created for every new project, allowing the various departments to cooperate and share their expertise to produce the best possible result, in the sole interest of the customer. To guarantee the best possible quality, R&D and ENGINEERING study both prototypes and solutions at micron levels, including those used for the production of pre-formed shapes, are produced in our own plants. To conclude, formula created by Eredi Scabini using raw materials of the highest quality.

The quality of all services and products manufactured by Eredi Scabini is certified.

Eredi Scabini amongst the best suppliers of the Tenaris Group.

Eredi Scabini took part in the last edition of Exiris Suppliers Award (2013), a prize awarded in recognition of the quality and excellence of products and services provided by Tenaris’s Tier 1 and Tier 2 suppliers. Eredi Scabini is proud to share with other suppliers its significant role in the success of Tenaris’ business in the sector. The company, based on its high quality, reliability and service, is always committed to providing its customers with top-class products and service.

Looking for an advanced level solution? We have it.

Eredi Scabini offers castables, insulation and refractories for the highest temperatures, ensuring long life and optimal performance. The company’s expertise in the field of monolithic refractories allows it to provide solutions for all kinds of applications, from the most basic to the most sophisticated, ensuring the best results in all situations.

Eredi Scabini sees to it all.

It is well known for its impressive capability for offering its customers products with high technology and service contents. Eredi Scabini, one of the first to introduce monolithic refractories as an alternative to conventional systems, now specialises in the production of monolithic, pre-formed shapes and industrial flow products. But above all, it is formed to be able to offer products and solutions custom designed for every specific requirement, guaranteeing a complete “turnkey” service in all areas.

Looking for an advanced level solution? We have it.

The slogan of this campaign is designed to highlight the company’s multi-annual international reputation. Eredi Scabini is well aware of the competitive potential of its solutions, and is therefore keen to promote both the environmental and economic advantages of its approach.

Big investments for the production of even bigger pre-formed shapes.

Eredi Scabini believes in pre-formed shapes, designing and realising its own plants to pre-form shapes with a weight up to 15 t/m. There are many advantages (among others: performance increase, reduction of maintenance and downtime), and the market is more and more confirming the intuition of the company increasing the inquiry of high quality and large pre-formed shapes.

A SUCCESS STORY

Eredi Scabini was established in 1949, thanks to the initiative and enthusiasm of its founder Domenico Scabini. Eredi Scabini is now one of the leading companies in the Italian refractory products market, with a turnover of more than €100 million and a specialised staff of more than 80 people, enabling it to operate easily on both the domestic and international markets.

Eredi Scabini’s history is paved with innovative products which have contributed to the evolution of refractory materials.

<table>
<thead>
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<th>Year</th>
<th>Type</th>
<th>Brand</th>
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<tr>
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<td>Conventional castables</td>
<td>Thermojet</td>
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<tr>
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<td>Low cement castables</td>
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<td>Self-distributing castables</td>
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<td>Large Aggregate Castables</td>
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<td>2010</td>
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<td>Histone</td>
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<td>2014</td>
<td>Nanoplastic products</td>
<td>Alfa Plast-Zetaplast-Sigmoplast</td>
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