



RefractorieX

Technical and Engineering Services



www.RefractorieX.com

Overview

With a rich history spanning decades, RefractorieX has solidified its position as a global leader in the refractory industry. Our commitment to excellence and innovation has enabled us to deliver comprehensive solutions to clients worldwide.

From sourcing premium raw materials to the design, manufacturing, and installation of refractory products, we offer a seamless and integrated approach. Our expertise extends across diverse industries, including steel, cement, petrochemicals, and more.

At RefractorieX, we pride ourselves on delivering exceptional service, technical expertise, and a deep understanding of our clients' unique needs. Our goal is to optimize your operations through reliable and durable refractory solutions.



Services

RefractorieX technical and engineering services are divided into three main sections:

- Design and Engineering Services.
- Installation and Commissioning Services.
- After-sales Service, Consulting, and Supervision



1- Design and Engineering Services

This includes the design and provision of refractory drawings and technical proposals for various equipment and furnaces in industries such as steel, cement, petrochemicals, and more. It also encompasses the design of various refractory components in different shapes and geometries, as well as the design and manufacturing of molds for producing special components and various refractory materials.

2- Installation and Commissioning Services

Accuracy and the correct application of methods during the installation of refractory products are our top priorities. We have invested significantly in this area and are committed to serving our clients. The drying process of refractory components is carried out with precision and adherence to temperature gradients using specially designed programmable dryers. Our installation and drying services include the installation of various refractory materials in industries such as steel, cement, and petrochemicals, as well as systematic drying operations for equipment and refractory materials in accordance with temperature gradients.





3-After-sales Service, Consultation, and Supervision

Our Engineering services department takes a specialized approach to the implementation of refractory materials and is committed to helping our clients in any industry and under any working conditions achieve maximum efficiency from the installed refractory materials. Our after-sales service, consultation, and supervision services include:

- Explaining and ensuring compliance with refractory material installation instructions under various conditions.
- Training execution teams on correct refractory installation methods
- Explaining instructions on storage, molding, concrete mixing, and bricklaying.
- Consulting, training, and supervising various projects.



Industries

Refractory design and installation services in the industry are divided into three main sections: modernization projects, annual maintenance and repairs, and periodic shutdowns. Leveraging advanced technology and equipment, this unit provides multiple execution teams for various industries such as steel, cement, petrochemicals, refineries, aluminum, copper, and more. These teams have the capability to manage projects and install all types of refractory material.



Steel Industry



- Melting and casting units, Blast furnace, Electric arc furnace (EAF), Induction furnace.



- Pelletizing plants, Direct reduced iron (DRI).



- Hot rolling mills, Pusher Heating furnaces, Walking beam, Circular, Tunnel.

Cement Industry



○ Rotary cement kiln



○ Preheater cyclones

Lime Industry



○ Lime rotary kiln units



○ Twin shaft lime production

Equipment

The equipment used in refractory work varies depending on the type of project and includes a variety of machines and tools. Some of the most important tools include paddle mixers, gunning machines, brick saws, and various vibrators.



Paddle Mixer

The success of a large portion of castable refractory installation depends on the effective mixing and stirring of the refractory mass. Therefore, the mixers used by this company are from the European brand Filmos, with capacities ranging from 180 to 550 liters.



Gunning Machine

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Brick Saws

Due to the sensitivity of refractory materials, refractory work must be carried out with sufficient precision. Therefore, the use of high-precision and safe cutting machines is a priority in this unit.

Vibrators

The use of suitable vibrators to compact castable refractory materials and remove air from the concrete is essential. The types of vibrators used include vibrating tables, body vibrators, electric, pneumatic, and hose vibrators.



Our Team

RefractorieX human resources structure consists of managers and supervisors holding master's and doctoral degrees who, after completing all managerial, financial, and operational courses, are employed in this unit. At the bachelor's level, the company's experts enter projects after completing preliminary courses and necessary training. All executive personnel also begin their work after completing internships and gaining sufficient knowledge of refractory products under the supervision of skilled craftsmen.

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