www.fkk.com.tr Since 1957



MINING

RUBBER MILL LINERS

Innovative Elastomer Technology





ABOUT US

FKK Group is a privately held company based in Samsun, Turkey. The Company was founded by two visionary Turkish entrepreneurs Tayyip Altuncu and Ahmet Avni Altuncu brothers in 1957. Since then FKK Group has become the world's leading spare parts manufacturer for automotive, mining, marine, industrial equipment and construction sectors. Today, second and third generations of Altuncu family are in control of firm's management. FKK Group has 4 production plants 2 in Samsun, 1 in Corum and 1 in istanbul, and 3 offices for marketing in Ankara, Istanbul and Izmir.

FKK Group manufacture and supply spare parts such as jounce bumpers for automotive sector, rubber mill liners for mining industry, marine fenders for sea ports, Vulkollan tow to top rollers for Stretch breaking machines for Industrial Equipment and rubber bridge bearings for one of the biggest construction projects in Turkey and Middle East.

Our Company philosophy "Excellent Quality, Best Price and Fast Delivery" obtain us to export our products to more than 55 countries worldwide. Our long term marketing strategy is to reach this number to 196 countries in seven continents.





RUBBER MILL LININGS

Day by day, it becomes more important to use rubber materials in mineral grinding operations because of their resistance to wearing. Also with the relation to the above concept, the most important reasons of using rubber linings instead of steel linings are as follows:

First, rubber linings are more economical than steel linings, they become more adapted in grinding operations and they decrease the noise pollution effectively which is produced due to grinding and cause also a suitable work environment.

Rubber is lighter than steel and this facilitates the handling and installation for workers, in aspect of accidents it reduces injures due to handling and installation of lining which is occured in lining.

Due to elasticity of rubber it shows more resistance to material than steel lining. This also causes to emit sounds. Resistance to wearing is not because of hardness of its formation, it is because of strong polymer bonds in rubber.

Rubber has more resistance than steel to abrasion and hard materials.

Knowing special criterias of rubber has a very important role in performance of good grinding.

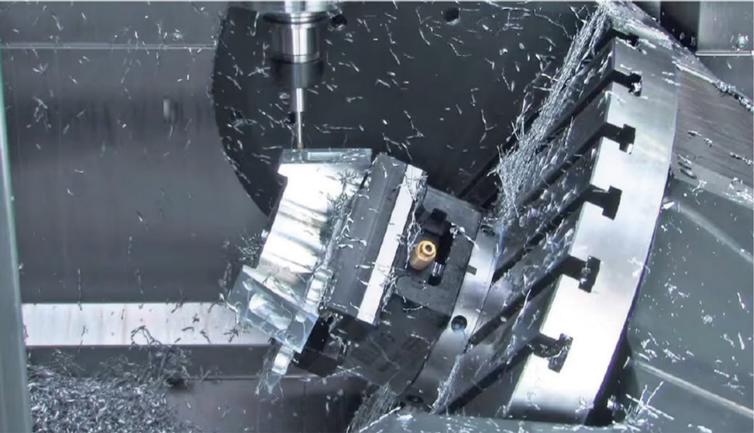
Due to light weight of rubber mill liners, operators consume less energy in their grinding processes.

We use different rubber formations for different conditions. FKK by using high technology and experienced technicians guarantee the selection of different formation of rubber for different grinding conditions.













MOULD

For more than 50 years FKK group has been designing and manufacturing molds according to our customer specifications. Our latest technology CNC machines works 7/24 a week and 365 days a year.

MANUFACTURING PLANT





RESEARCH AND DEVELOPMENT UNIT (R&D)



FKK Group's R&D department works closely with universities to make new formulas and solutions for top quality products.

Our company has it's own labortary which has got latest technology equipments for all kind of rubber processing tests.

LABORATORY EQUIPMENTS

Computer equipped tensile testing bench
Ozone testing machine
Density measurement machine
Rheometry
Stereo microscope with camera
Corrosion test machine
Deflection - load character measuring machine

Shore A and Shore D polymer hardness measurement machine Metal hardness measurement apparatus Magnetic mixer

Magnetic mixer Ash oven Ageing (Etuv) equipment Permanent deformation machine Sensual weighing machine





















ISO 9001:2008 ISO/TS 16949:2009 ISO 14001:2004 TS EN ISO/IEC 17025 OHSAS 18001:2007

FKK GROUP

RUBBER MIXING PLANT



FKK Group have 5,000 tones of rubber mixing capacity. Our long term plan is to make a new investment for latest technology rubber mixing factory to increase our capacity to 10,000 tones by 2023.

We always use top quality rubber raw materials for our production.

RUBBER AND ADVANTAGES

There are many advantages of rubber as a material, but most are associated with its inherent elasticity. Unlike most materials, rubber will very quickly recover its original form, even after large deformations. Under modest pressure it will also mould itself closely to harder and less than perfectly even surfaces, especially metals. Together with its resistance to wear, these properties make it ideal for a wide variety of sealing applications. Chemically speaking. rubber is an elastic material made up of long chain molecules known as polymers. Such polymers occur naturally in the sap of Hevea and Ficus trees, but for industrial purposes are now more often synthesised from a variety of other chemical compounds having short chain molecules, or monomers. In their raw form polymers generally lack most of the properties required in finished rubber products. It is not until these polymers are mixed together with other materials, or compounded, that these properties are achieved. There are four main ingredients essential to a finished compound:

The basic raw material, this being the polymer itself.

The Reinforcing - most commonly carbon, or in the case of coloured compounds silica. The reinforcing gives the compound its mechanical strength, and determines many of its characteristics.

Accelerators, or chemical catalysts that promote the cross-linking of the long chain molecules within the compound. It is this cross-linking which gives rise to the compound's ability to recover its initial form.

Additives, in the form of small quantities of oils, fatty acids and waxes. Additives enhance the performance of a compound in downstream manufacture, depending on its end use.







FKK Group specializes in the design and manufacture of Rubber Pulp Discharge systems for AG/SAG and Ball Mills We are able to manufacture different kinds of rubber, polyureathane and vulkollan spare parts for mining sector.

7 24 Technical Support Service

When you choose FKK grinding mill liners you will use from our confidential organization services.

We are always at your service with our experienced technical staff.

Our products produce with cooperation of mineral processing industries. FKK grinding mill linings are produced and designed for unwanted problems in operations.

As a part of your complete grinding mill linnings programs, you can use our technology for improving your grinding projects.

As know, the most important aims of firms which manufacturing the materials and giving services in national or international markets are quality and decreasing the cost of materials.

To reach these aims, laboratory has an important role.

Our firm, by using modern laboratory instruments has reached to the mentioned aims.



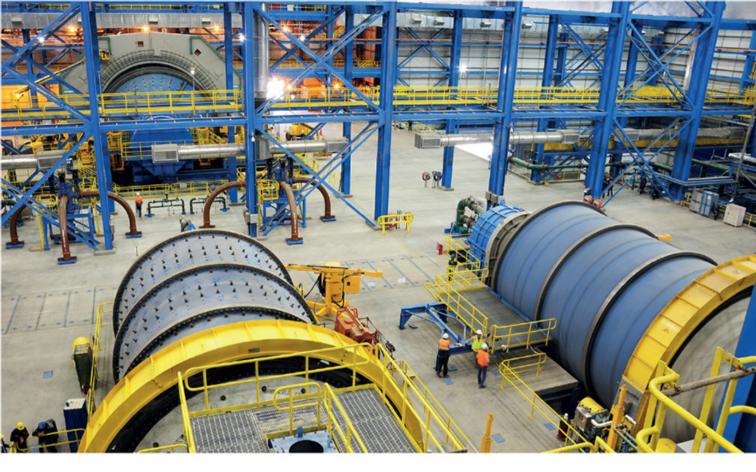












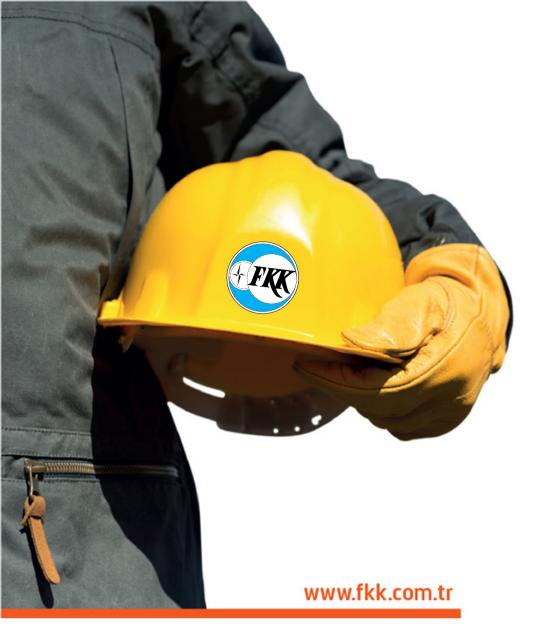
SUITABLE FOR ALL TYPES OF GRINDING MILLS

We have supplied rubber mill liners for more than 900 mills worldwide.

Autogenous mills
Semi-autogenous mills
Ball mills
FGD mills at power plants
Rod mills
Pebble mills
Continuous mills
Batch mills
Pebbels Mills
Cylpeb Mills
All types of special design mills







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