

KIA Magnet Co. works in design and production of magnetic equipment also supplies a complete range of plant equipment to provide the most advanced technology to its customers in various industries such as Steel mills & Foundry, Mining & Quarry, Cement, Tile, Ceramics & Porcelain, Food & Pharmaceutical, ports & sea shipyards, Wood and Papers, Recycling. KIA Magnet's activities are organized in two main divisions of:

- Design and Production including Material Handling Systems and Magnetic Separator Systems
- Plant Equipment Supply including Rail and Fastening System, Conveyors Belts, Safety and Monitoring Instruments, Industrial Metal Detectors, Vibrating Feeder, Electromagnetic Clutch

Steel mills & Foundry



Mining & Quarry



Cement



Tile, Ceramic & Porcelain



Food and Pharmaceutical



Wood & Paper



Recycling



Port & Sea Shipyards



Casting



Float Glass



Plant Equipment Supply

Rails

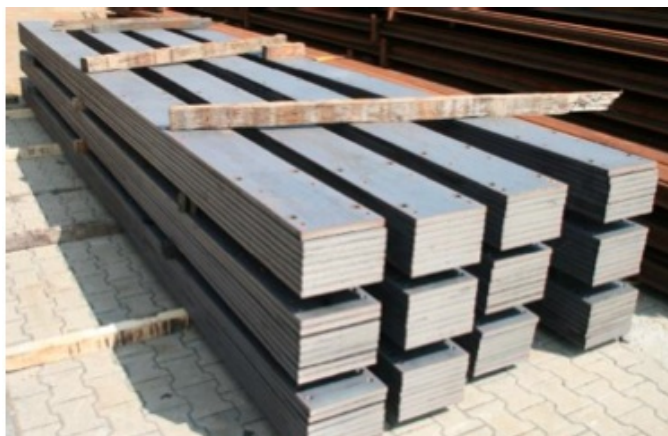
KIA Magnet supplies all types of rails in various sections and profiles from qualified European producers with analysis technical certificate and documentation. The rails are provided with steel grades 70 to 110 Kg/mm^2 and according to European standard in different tensile strength range of 690 to 1080 N/mm^2 qualities and specifications.



Rail pads, clips, Sole plates, Fishplates

Besides supplying crane rails and track rails we supply related rail accessories, among which clips, sole plates and Ribbed Tie Plates, Pad, Fish Plates.





Monitoring and Controlling Equipment for Conveyor Systems

KIA Magnet supplies complete range of instrument for monitoring and controlling conveyor systems of superior quality and reliability from Germany, UK and North American producers including:

- **Pull Rope switches**

KIA Magnet Co is the authorized representative of IDEM safety products in IRAN. Guardian Line Series Grab Wire Safety Rope Switches designed to be mounted on machines and sections of conveyors which cannot be protected by guards.



KIA Magnet Co.

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GLHD-SS offering is a Heavy Duty Safety Rope Pull Switch with Stainless Steel 316 housings which have been designed and manufactured specifically to withstand the harsh environments that are found in the Food and Pharmaceutical industries. They will survive chemical and detergent washdown by providing all stainless steel parts and robust IP67 and **IP69K** sealing by the use of integral bellows and gaskets.



- Misalignment switches



- **Limit switches**



- **Electronic Speed Monitoring, Pulse Transducer for Coupling and Proximity Switches**



All products are complied with European and North-American standards, DIN EN ISO 13850, DIN EN 60204-1, DIN EN 60947-5-5, DIN EN 60947-5-1, EN 620, BGI 710, IEC 60947-5- IEC 60947-5-5, IEC 13849-1, UL508.

We also supply, explosion proof instrument certified with standard ATEX EExd IIC T6 and IECEx, approved for use in potentially explosive atmosphere.

Metal Detector

The industrial metal detector are installed over conveyor belts and are able to distinguish all kinds of metal, including aluminum, copper, stainless steel iron, etc. This way, with detecting the tramp iron they protect mills, crushers, cutters and other valuable process equipment from damage. KIA Magnet supplies various types of metal detectors from Germany, UK and North American producers featured by user-friendliness, adjustable sensitivity strength, resistant against intensive vibration and environmental noise, simple installation and does not require cutting the belt. Our metal detectors are presented in four types of

- **Single probe**

Single plate metal detectors are designed for monitoring skin-deep material depths where both transmitter and receiver are integrated in one housing that is mounted directly under the conveyor belt. The standard models can be used for material depths up to a maximum of 150 mm. The robust housing represents very good shielding against environment disturbances.



- **Tandem probe**

We supply reliable tandem probe metal detectors for different belt widths from 200 mm to 3000 mm. Tandem detectors are consisted of a sensor section, which is mounted below the belt, a distance frame and a sensor, which is placed above the belt.



- **Iron-Ore specialized Tandem probe**

This metal detector is designed especially for belt conveyors moving coal, iron pellets, minerals, aggregates and other bulk materials. In fact this metal detectors are able to distinguish all kinds of metal, including aluminum, copper, stainless steel iron, etc but doesn't detect ferric oxides like magnetite and hematite.



● Customized tandem probe

In some situation, due to existing building and construction parts, installation of standard devices would be difficult. We can supply custom devices for these especially difficult areas of use. We can also deliver ATEX metal detectors specified for use in areas where explosions could occur.

Conveyor Belts

KIA Magnet offers a complete range of conveyor belts, for all mining and industrial applications.



We supply strongest belts, both textile and steel cord, also special conveyor belts such as Elevator belts, Oil and Terpene Resistant, Heat Resistant Conveyor Belts, sidewall belts, Steep conveyor belts, Multilayer conveyor belts, Sawtooth conveyor belts.



KIAs spring and motor driven cable reels

In order to electrification of moving magnets and machines also moving electric power cables the cable reels are used. Motor driven and spring cable reels are designed and manufactured in various size and length and different types of cables (circular and flat). Choosing the proper cable reels depends on size, length, amperage and collecting speed of cables. KIAs spring cable reels are made of the best German spring and depending on type and length of the cable are manufactured in 5 different drum size and made of galvanized steel.



KIAs cable reels are manufactured using motor gearbox and clutch systems from western European brands along with electrical enclosure equipped with on-off contactor, alarm sounds, situation light signal and control contactors. KIA magnet supplies wide range of circular and flat cables for various industrial applications, also supplies different types of spring, slip ring, clutch systems, motor and gearbox.



KIA Over Belt Magnet Separators

In various industries such as Cement, recycling, steel, silica, copper, aluminum, wood, paper, ceramic etc. exciting iron tramps included in input material can cause serious damage to machinery in production procedure. The KIA magnet separators in two types of electrical (KEAS) and permanent (KPAS) with absorbing these tramps parts protect from machinery production line thoroughly. Depending on load condition and ferrous impurities, suspension KIA magnet separators KEAS and KPAS will be installed in cross belt or in line. Both types can be cleaned automatically without operator vigilance.

Electro Suspension Magnet Separators (KEAS)

In this type the magnetic attraction force is supplied using electric coil and the cooling system is applicable in tow methods of Natural air cooling and Natural oil cooling. Natural oil cooling method has the advantages of being smaller and lighter, less price and better heat transferring.



Permanent Suspension Magnet Separators (KPAS)

In this model the magnetic attraction force is supplied using permanent magnets and it has the advantages of working free of electric power and battery, high attraction strength and long lifetime.

