

CAMEL

کامل صنعت تهران Camel Sanat Tehran

Design & Construction of Material Handling Systems



Introduction

Camel Sanat Tehran

Design, Manufacturing and Implementation of Material Handling Systems

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Introduction

This industrial group, by combining technical expertise, advanced infrastructure and a development-oriented approach, is recognized as one of the leading entities in the field of EPC (Engineering, Procurement, and Construction) for industrial and civil projects. Leveraging skilled professionals, modern machinery, and international standards, the group maintains a strong presence in key mining-related industries such as steel, copper aluminum, cement, as well as oil and gas.

Scope of Activities

This industrial group provides a wide range of services in the metals, cement, lime, gypsum, copper, lead, zinc, and other mining industries, including:

Design and Engineering

Provision of consulting services, basic and detailed design, industrial supervision, and preparation of technical and economic reports

Procurement and Construction Contracting

Execution of projects involving steel structures, mechanical and power plant equipment, material handling systems, and industrial cranes

Domestic and International Trading

Including the procurement of equipment and raw materials from reputable global suppliers



Capabilities & Manufacturing Infrastructure

Group possesses a production facility spanning 80,000 square meters with a manufacturing capacity of 3,300 tons per month. Utilizing advanced equipment, skilled personnel and modern technologies, it upholds high-quality standards in executing large-scale industrial projects.

Completed Projects

We successfully completed numerous projects in the design and construction of material handling systems, steel structures, industrial plants, and production line installations. These include steel plants, cement complexes, iron ore concentrate production units, power plant facilities, and various industrial infrastructures, all implemented using modern engineering methods.



Camel Sanat Tehran Co.

Pioneering Innovation, Ensuring Reliable Handling



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Introduction

Camel Sanat Tehran Engineering Company was established in 2001 with the goal of designing and manufacturing material handling systems. Focusing on the specialized production of rollers, drums and idler, the company began its operations and through the development of laboratory facilities and quality control systems, has successfully met the needs of clients and product inspectors in the field of belt conveyors.



Vision

Camel Sanat Tehran Engineering Company, as a pioneering and transformative organization in the bulk material handling industry strives to advance cutting-edge technologies, optimize industrial processes and implement intelligent material handling systems. With a strong focus on sustainability, enhanced efficiency, and active presence in regional and international markets, the company aims to solidify its position as a trusted engineering authority and supplier of material handling equipment.



Mission

To engage in strategic investments, engineering design, manufacturing and implementation of material handling systems in accordance with global standards.

Investment in Research & Development (R&D and Brand Differentiation)

The management of Camel Sanat Tehran has always been committed to meeting the needs of the country's major industries, including mining, cement and steel. In pursuit of this goal, the company has consistently invested in research and development, exploring innovative methods to enhance product quality and efficiency, thereby creating market differentiation. This strategy has positioned Camel Sanat Tehran as a leading brand in the field of material handling equipment.

Innovation and Quality Control Infrastructure Development

Recognizing the critical role of rollers in the efficiency and durability of material handling systems, Camel Sanat Tehran has invested in equipping and upgrading advanced laboratory facilities. The company's laboratories are fitted with Dust Test, Water Test, Internal Resistance Test, Run-Out Test and Load Performance Test equipment for rollers. This level of quality control enables the company to comply with international standards and meet the precise requirements of clients and product inspectors.

Production Capacity Expansion and Infrastructure Development

Following the company's successful performance and the high satisfaction of clients with its product quality, in 2012, Camel Sanat Tehran established a new factory with an area of 4,500 square meters and a building space of 3,750 square meters. This expansion increased the company's production capacity to over 10,000 units per month, making a significant contribution to meeting domestic industry demands and strengthening the company's position within the national supply chain.

Strategic Integration and Establishment of the Industrial Group

In 2021, with a development-oriented approach and in line with expanding its scope of activities, Camel Sanat Tehran Engineering Company initiated strategic collaborations with Poosha Sazeh Felezi Pouya and Kian Poulad Sadeh companies. This strategic convergence went beyond a mere financial partnership, evolving into a purposeful industrial alliance that resulted in the formation of an integrated industrial group.

By combining the specialized capacities of its partners including advanced engineering expertise, robust production infrastructure and efficient management processes, the group has succeeded in creating a cohesive and synergistic structure. The outcome of this integration has been a significant increase in production capacity, optimization of engineering processes, enhancement of product technology and development of competitive capabilities in the industry. Beyond internal improvements, this alliance has strengthened the supply chain, integrated production and logistics processes and enabled access to advanced technologies, higher efficiency and more specialized solutions.

From a market development perspective, the industrial group has now solidified its position in the material handling, mining, cement and steel industries by focusing on innovation, global standards and a strong presence in both domestic and regional markets.

This strategic collaboration has not only improved the operational performance indicators of the group but has also positioned it as a key player in the material handling industry, with high competitive strength and a sustainable growth outlook.



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Current Position and Brand Reputation in the Industry

Today, Camel Sanat Tehran Engineering Company, relying on its skilled workforce and up-to-date technical expertise, has entered its third decade of operation as a reputable and well-recognized brand across most industries and mining sectors, including the cement and steel industries in Iran. The widespread presence of the company's products in industrial centers serves as a testament to their quality, durability and the brand's credibility in competitive markets.

Competitive Advantages



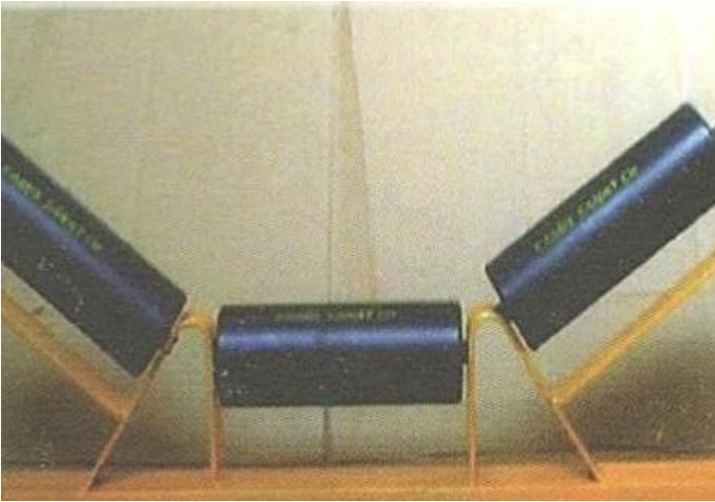
The diversity of services is a distinctive feature of this group. Among the key factors behind the success of Camel Sanat Tehran Engineering Group are speed, accuracy and integrity in all execution operations.



Coordinated management, experienced specialized personnel, strong communications, and robust informational capabilities, combined with adherence to the latest production, import and export regulations, have enabled the company to efficiently and successfully complete any construction, design and implementation projects in the shortest possible time.



Competitive Advantages



Development and Efficiency

With new and efficient management, the establishment of a new factory in Qazvin has enabled the expansion and increased the industrial group's production capacity to over 10,000 units per month.



Customer Satisfaction

Following over 22 years of successful performance and customer satisfaction with product quality, we remain committed to entrepreneurship, increasing production capacity and sustainable growth and development.



Modern Laboratory

The company's laboratory is equipped with advanced testing devices including Dust Test, Water Test, Strength Detection and Run-Out Test equipment, as well as roller lifespan testing under load.



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Technical Standard

All rollers produced by the company are manufactured according to the international standard DIN 15207.

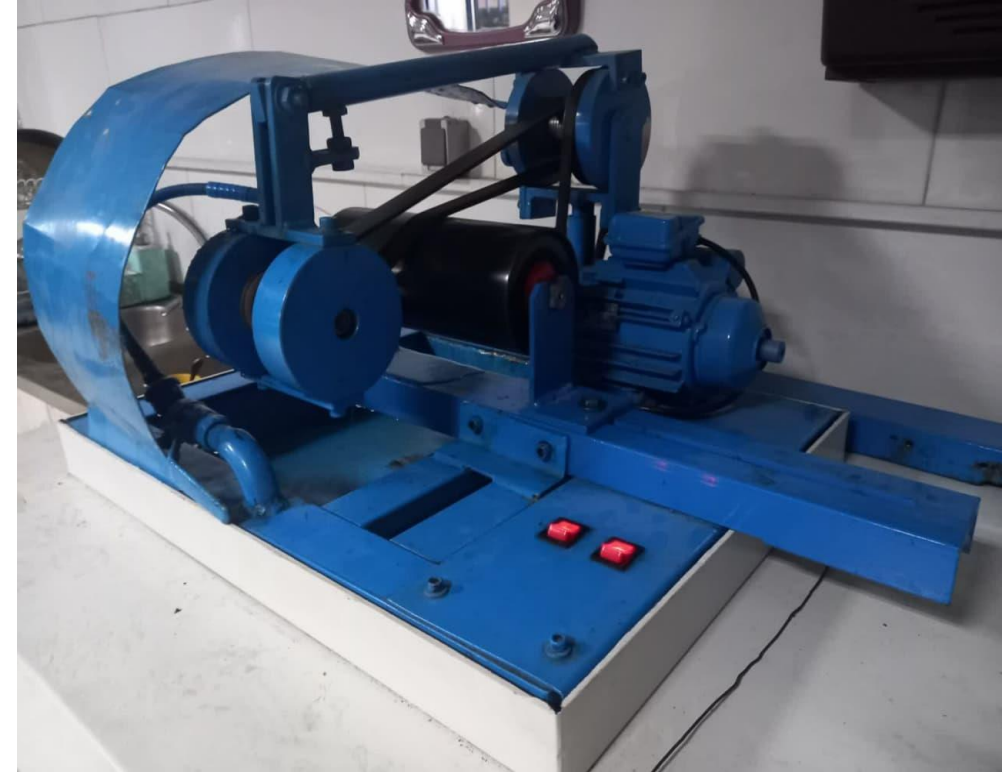
Various types of rubber rings are produced based on the DIN 15209 standard with a hardness of 70 Shore A ± 5 .

Adherence to Technical Guidelines

One of the critical factors in roller manufacturing is minimizing rotational friction. Excessive friction not only causes subtle and gradual damage to the entire conveyor belt system but also puts additional strain on the gear motor, leading to premature failure and increased power consumption. Another issue caused by high friction is the early failure of rollers, which also damages the rubber conveyor belt. These problems result in equipment downtime, frequent repairs, and significant financial costs.

Camel Sanat Tehran Co.

To ensure product quality and provide peace of mind to valued customers, Camel Sanat Tehran is the first company in Iran to utilize a specialized device called the Idler Friction Tester. This equipment measures the internal resistance of rollers digitally and provides precise data to clients, ensuring superior quality control.





Conveyor Belt

With the development of industries, material handling has gained significant importance. Material handling systems are an essential part of production and processing. Among these, conveyor belts play a crucial role in transporting materials in modern industries due to their ease of use, speed, and reliability.

Camel Sanat Engineering Company, with its scientific and practical background, specializes in the production of conveyor belt components. By establishing a standardized production line and implementing quality control measures, the company has earned the satisfaction of its clients.

Key Factors Influencing Conveyor Belt Design

Material Transfer Speed



Type of Material Being Transported



Environmental Conditions



Size, Weight, and Shape of the Material

Specialized Activities

- Design and manufacture of various types of conveyor belts
- Production of different rollers, idler and drums
- Design, manufacture, and supply of various types of scrapers
- Technical consulting for the repair and maintenance of material handling equipment
- Provision of laboratory services and various quality control tests for roller manufacturing in accordance with relevant standards



The company's laboratory is equipped with standard ISO 17025 certified testing devices for conducting recognized quality control tests on rollers.

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Balance test



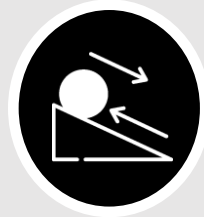
Sealing test



life time test



Run out test



Friction test





Rollers

Camel Sanat Tehran Engineering Company specializes in the design and manufacture of material handling system components, particularly conveyor belts. Among its key activities is the production of various types of rollers, idler and drums with excellent quality, complying with international standards such as UNI, DIN, ISO, GIS, BS, FEM, AFNOR, and CEMA. Equipped with a modern laboratory certified to ISO 17025 standards, the company meets its own needs as well as those of other industries to compete effectively in global markets.

Types of Rollers

Impact Roller	Carrying Roller	Return Roller	Guide Roller
Impact rollers are installed beneath the loading points to absorb the shock of falling material. They are equipped with durable rubber rings that reduce the impact intensity. These rollers must be coaxial, sealed, and run smoothly.	Carrying rollers are used along the conveyor line to transport materials and are usually made of metal. These rollers experience the highest friction with the belt and, if not properly balanced or of poor	Return rollers are used beneath the conveyor system, from discharge to loading areas, to support the returning belt. They are installed either horizontally or in a V-shape; the V-shaped type is more suitable for heavy-duty belts.	Guide rollers play a crucial role in steering the conveyor belt along a straight path. Proper spacing for guide rollers must be considered in conveyor design to prevent belt deviation at various sections.

Spindle design

Basic abbreviation

F with flats

d	=	20	25	30	40
ch	=	14	18	22	32
e	=	4	4	4	4
g	=	9	12	12	12
f	=	13	16	16	16

Y with internal flats

d	=	15	20	25	30	40
ch	=	11	14	18	22	32
e	=	4	4	4	4	4
g	=	5	8,5	11,5	11,5	11,5
u	=	4	4	4	4	4
f	=	13	16,5	19,5	19,5	19,5

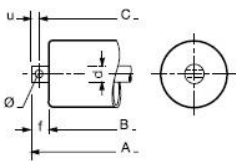
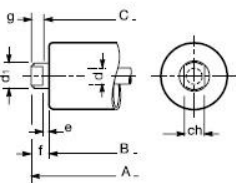
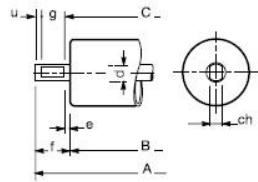
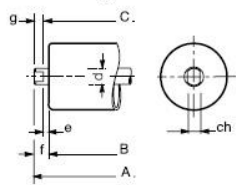
B with bush *

d	=	15	15	20	20	15
ch	=	14	17	30	30	30
d ₁	=	20	20	35	37	37
e	=	4	4	5	4	4
g	=	9	9	10	9	9
f	=	13	13	15	13	13

K orthogonal hole (for garlands)

d	=	15	20	25	30	40
u	=	7	10	12	16	16
f	=	17	24	28	36	38
o	=	6,3	8,3	10,3	14,5	16,5

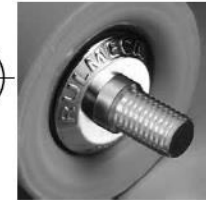
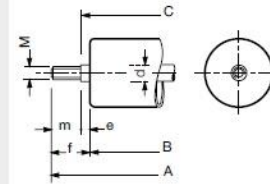
Arrangements



* B = metal bush N = polycarbonate bush G = nylon bush Q = nylon bush

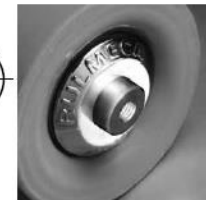
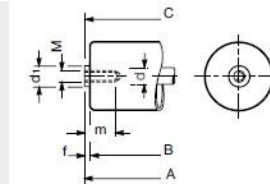
M male threaded

d	=	15	20	25	30
e	=	8	8	8	8
m	=	33	35	35	40
f	=	41	43	43	48
M	=	14	16	20	24



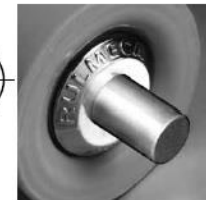
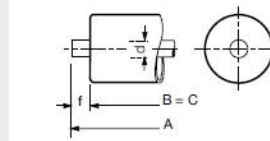
R female threaded

d	=	15	20	25	30	40
d ₁	=	20	20	25	30	40
f	=	8	13	16	16	16
m	=	18	20	25	25	25
M	=	10	12	16	16	16



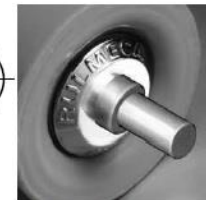
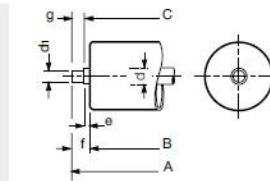
S plain

d	=	15	20	25	30	40
f	=	13	13	13	16	16

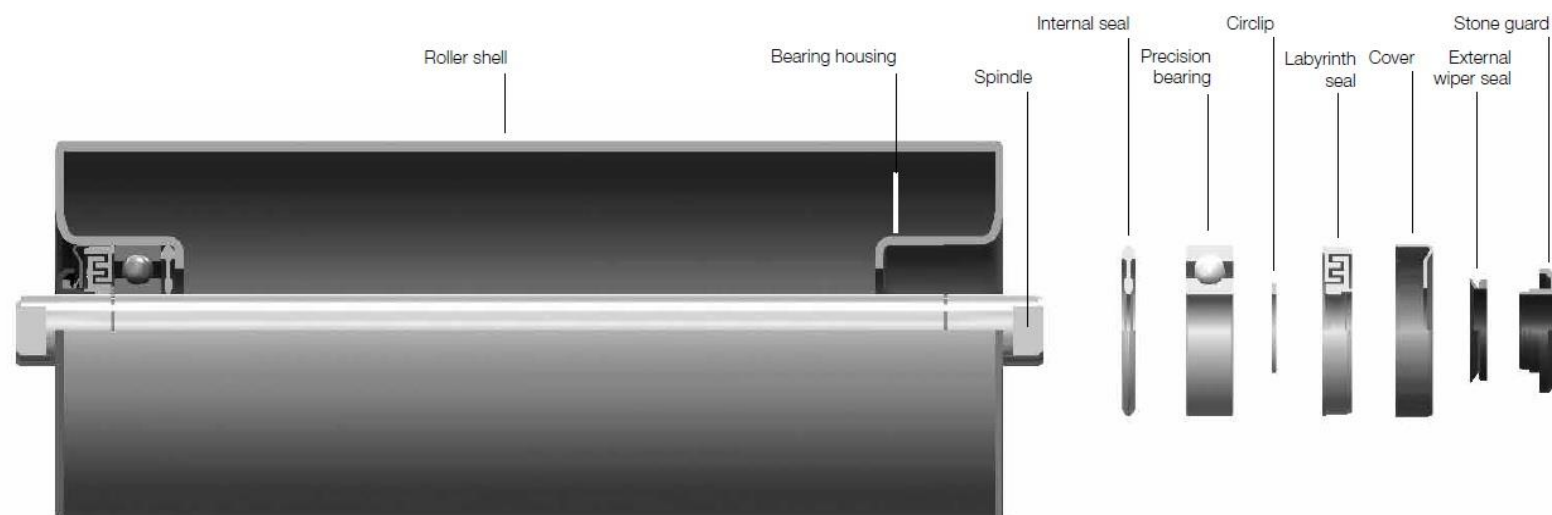
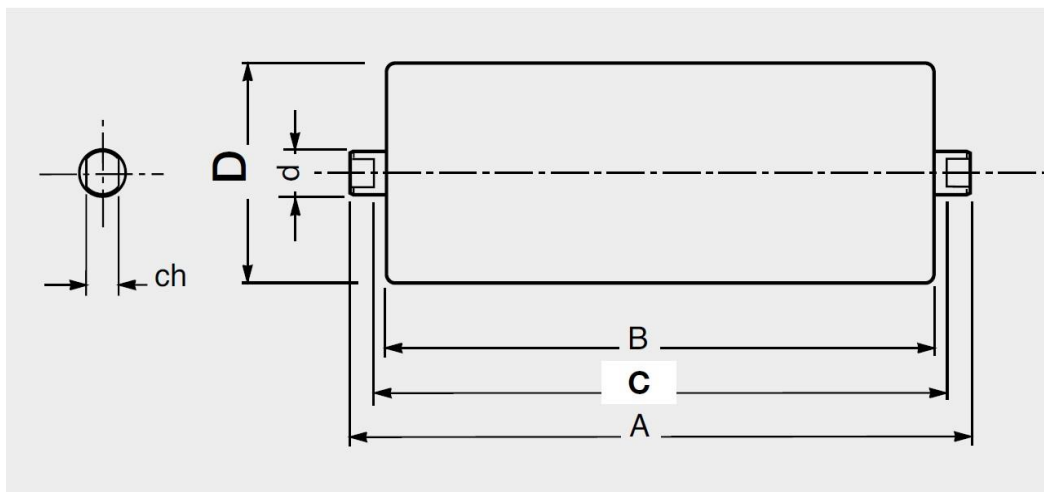


S1 with diameter reduction

d	=	15	20	25	30	40
d ₁	=	as required				
f	=	as required (g + e)				
g	=	as required (f - e)				
e	=	as required (f - g)				



Spindle extensions that are not symmetrical, dimensions of flats "ch" that are different to the designs shown in the table, are all possible but should be specified clearly in the order with a sketch.





Idler

Camel Sanat Tehran, leveraging experienced experts and specialized technical design and manufacturing knowledge, has the capability to design and produce various types of idlers according to relevant standards, delivering excellent performance tailored to the needs of different industries and clients.

Carrying Idler

They are among the most widely used and practical idler, serving as supports for carrying rollers.

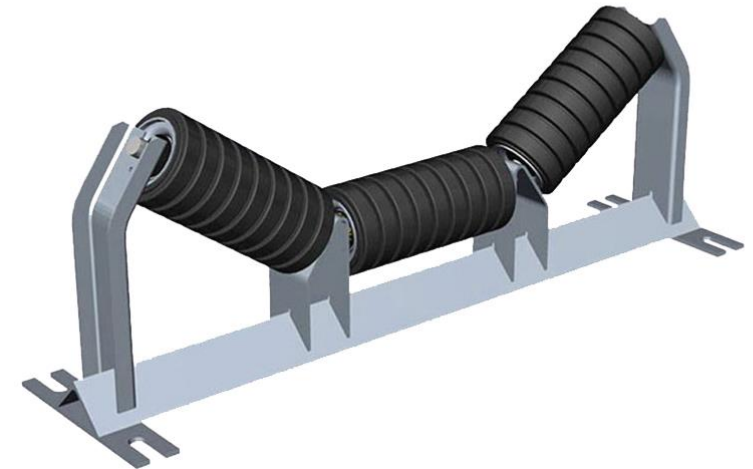


Return Idler

Return Idlers are another type of idlers that act as supports for return rollers and the conveyor belt.

Self-alignment Idler

This type of idler is used as support and adjuster for the conveyor belt.



Pulley

Pulleys in conveyor systems are responsible for generating and transmitting motion, steering, tensioning and changing the direction of the conveyor belt.

Types



Head/Drive Pulley



Take up /Tension Pulley



Tail Pulley



Snub Pulley



Bend Pulley



Camel Sanat Tehran Laboratory

Roller production line, especially for carrying and return rollers, is equipped with advanced laboratory facilities to ensure rigorous quality control. The company has established a laboratory outfitted with standard testing equipment, certified to ISO 17025, providing the following services to its customers.

All products manufactured by the company come with a performance warranty, ensuring reliable operation for valued consumers.

100%

Friction test

100%

Life time test

100%

Balance test

100%

Run out test

100%

Sealing test

Corporate Social Responsibility

Camel Sanat Tehran's social responsibilities encompass a set of duties and commitments aimed at preserving, caring for, and supporting the community in which it operates. These responsibilities are divided into three main areas:

1

Environmental Responsibility: One of the company's primary social duties is to protect the environment and support natural resources. Camel Sanat Tehran is committed to participating in tree planting projects and the development of natural resources.

2

Philanthropic Responsibility: In this area, the company dedicates itself to providing social services and addressing social issues through various campaigns aimed at solving community challenges.

3

Ethical Responsibility: At this level, the company fulfills its ethical duties by offering higher employee compensation through bonuses, timely payment of salaries and benefits, providing job opportunities for experienced unemployed individuals, avoiding partnerships with companies that have negative reputations, and refraining from layoffs.

Ongoing Projects



FIE Co.

Roller & Idler
Procurement



MIC

Roller
Procurement



Lamerd Cement

Roller
Procurement



EIM Co.

Roller
Procurement



M.S.F Co.

Roller
Procurement

Ongoing Projects



Adrian Scale

Roller & Idler
Procurement



KCIG Co.

Roller
Procurement



**Shargh White
Cement Co.**

Roller
Procurement



SJSCO

Roller
Procurement



Kimia Sadr

Roller
Procurement

Ongoing Projects



Iran Alloy Steel Co.

Roller & Idler
Procurement



Bargh Ara

Roller
Procurement



PTSILO Co.

Roller
Procurement



**Fouladkar
Alvand**

Roller
Procurement



BMISCO

Roller
Procurement

Certificates



Certificates of Appreciation



Certificates of Appreciation



Key Customers



Trusted by Various Industries

- Mining and Mineral Processing (Ore Production, Sand and Gravel Mines, Manganese Recycling, Chrome Concentration, Iron Ore, Concentrate)
- Steel and Metallurgy
- Cement Production
- Copper Industry
- Infrastructure (Metro, Highway Construction, Dam Building)
- Petrochemical
- Sulfur Production

